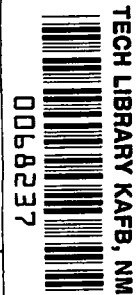


LOAN COPY: 1
AFWC G
PORTLAND A

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



TECHNICAL REPORT
R-158

TABLES FOR ECCENTRIC AND TRUE ANOMALY IN ELLIPTIC ORBITS

By JACK T. KENT, GEORGE B. TAACK, JR.,
and DAVID C. LARSON

1963



TECHNICAL REPORT R-158

TABLES FOR ECCENTRIC AND TRUE ANOMALY IN ELLIPTIC ORBITS

By JACK T. KENT

**With the programming assistance of George B. Taack, Jr., Data Processing
Supervisor, and David C. Larson, Mathematics Student**

**Data Processing Center
Agricultural and Mechanical College of Texas
College Station, Texas**

TECHNICAL REPORT R-158

TABLES FOR ECCENTRIC AND TRUE ANOMALY IN ELLIPTIC ORBITS

By JACK T. KENT

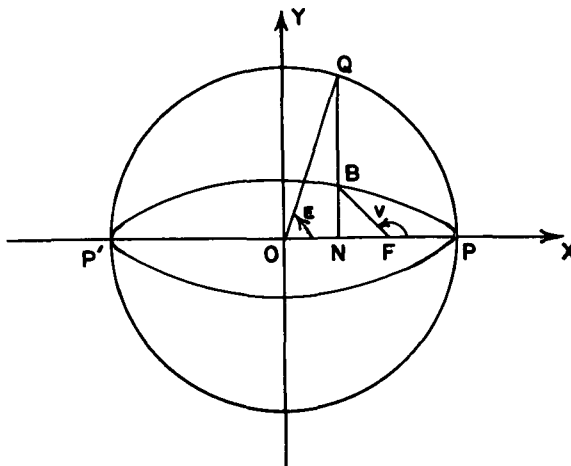
With the programming assistance of George B. Taack, Jr., Data Processing Supervisor, and David C. Larson, Mathematics Student, Agricultural and Mechanical College of Texas

The following tables have been compiled to facilitate the computation of the orbits of spectroscopic and visual binaries, and small planetary objects, such as asteroids and satellites. These tables represent a considerable extension of the TABLES FOR THE TRUE ANOMALY IN ELLIPTIC ORBITS, by Frank Schlesinger and Stella Udick, in the Publications of the Allegheny Observatory, Volume II, Number 17. Here both the true anomaly and the eccentric anomaly are given, and the eccentricity ranges from 0.01 to 1.00.

The computation involved in the compilation of these tables was done on the IBM 709 Data Processing System at the Data Processing Center of the Agricultural and Mechanical College of Texas. The programming technique employed was FORTRAN using double precision arithmetic.

The accuracy of the tables is eight (8) digits. The computation was done by the double precision method, giving accuracies of ± 1 in the twelfth digit, and then rounded off was made to eight digits. The maximum round off error in the tables will be ± 1 in the fifth decimal place.

The line of apsides, PP' in the figure, is the major axis of the elliptical path of the minor body about the major body. The radius vector, FB , is the instantaneous line joining the two bodies. Perihelion, P , is the point of closest approach of the two bodies. True anomaly, v , is the angle at the major body between the line of apsides at perihelion and the radius vector. Mean anomaly, M , is what this angle, v , would be, were the motion of the secondary body uniform. Eccentric anomaly, E , is an auxiliary, and may be



represented as the angle at the center of the ellipse between the line of apsides at perihelion and the radius of the eccentric circle to the point obtained by extending to the eccentric circle the perpendicular from the secondary to the major axis. The anomalies, E and v , are illustrated in the accompanying figure.

These anomalies are related by the following equations:

$$E - e \sin E = M, \quad (1)$$

$$\tan \frac{1}{2} v = \sqrt{\frac{1+e}{1-e}} \tan \frac{1}{2} E, \quad (2)$$

where e is the eccentricity of the ellipse. Because the first equation is transcendental, the task of computing E from e and M is one of classic difficulty and is known as Kepler's Problem.

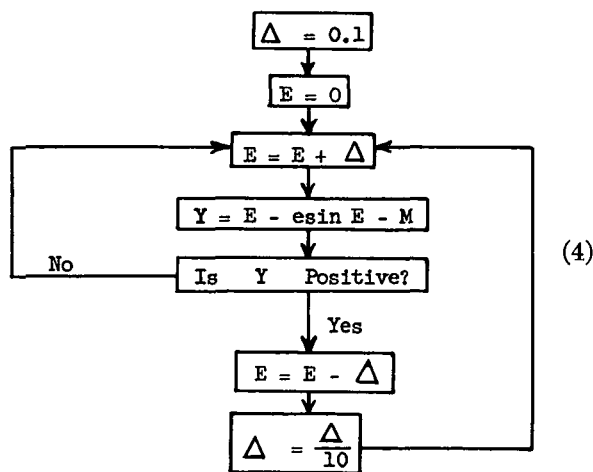
Several methods of solving for E were used, but all proved unsatisfactory from the standpoint of either accuracy or machine time. The first of

these methods was a Lagrangian development of E in series (OEUVRES DE LAGRANGE, Vol. 3, pp. 113-138),

$$E = M + e \sin M + \frac{e^2}{2!} \sin 2M + \frac{e^3}{3!2^2} (3^2 \sin 3M - 3 \sin M) + \dots \quad (3)$$

which, when carried out to the term involving e^8 , gave accuracy only to the second decimal place for large e . Several variations of the Newton-Raphson Method were tried, and these likewise failed to give the desired accuracy.

The technique finally used was one of utmost simplicity, and the actual computation was very rapid. (The total time to compute the entries in the table and to record these entries in binary-coded decimal on magnetic tape was approximately 20 hours.) A flow diagram will best illustrate our method of solving Kepler's Equation.



This procedure was repeated until the absolute value of Y was less than 10^{-10} .

To obtain v corresponding to a value of M greater than 180° , enter the M -row with a value of $360^\circ - M$, and the resulting value of v is then subtracted from 360° . For example, for $e=0.34$, $M=210^\circ$, then $360^\circ - M=150^\circ$, opposite which we find $v=360^\circ - 164^\circ.08132=195^\circ.91868$. The same procedure holds for E .

Most interpolation will be performed vertically, for fractional values of M . The first differences are printed in columns adjacent to the values, each entry being the difference between the entry corresponding to that value of E or v and the preceding.

The differences between columns are not printed, for very seldom does one need to interpolate for the third decimal in e .

Linear interpolation is sufficient in most cases. However, the second differences are printed adjacent to the first differences, where again each entry is the difference between the entry corresponding to that value of the first difference and the preceding. To make this correction, the computation should proceed as follows: if the fractional part of M is less than 0.5, multiply one-half the preceding second difference by the fractional part of M , and add algebraically to the first difference correction, if the fractional part of M is greater than 0.5, multiply one-half the corresponding second difference by the fractional part of M , and add algebraically to the first difference.

For most of the table, the error in neglecting the second differences will not exceed 10^{-2} , except for eccentricities between 0.45 and 0.80. However, it is suggested that the person using this table glance at the second difference column each time, to make his own decision.

The tables were printed directly from magnetic tape by means of the IBM 717 Printer, which has complete error checking facilities. Hence no typographical errors could appear.

David Larson wrote the program in single precision for the IBM 704, but the accuracy was not sufficient for our purposes.

George Taack rewrote and supervised the program in double precision for the IBM 709.

We wish to express our appreciation to Mr. Robert L. Smith, Jr., Head of the Data Processing Center of the Texas Engineering Experimental Station, for his cooperation and the use of these facilities.

**TABLES FOR
ECCENTRIC AND TRUE ANOMALY IN ELLIPTIC ORBITS**

ECCENTRICITY ϵ_N		$10^0 \delta IF.$		$10^2 \delta IF.$		$10^3 \delta IF.$	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
31	E	31.29764	1.008665	0.000090	0.000187	31.90854	1.026280
32	V	31.59657	1.017353	0.000182	0.000380	32.82898	1.052777
33	E	32.30621	1.008571	0.000094	0.000193	32.93452	1.025981
34	V	32.61373	1.017166	0.000187	0.000392	33.88114	1.052164
35	E	33.31469	1.008476	0.000095	0.000198	33.96019	1.025674
36	V	33.63071	1.016973	0.000193	0.000403	34.93268	1.051534
37	E	34.32307	1.008377	0.000099	0.000203	34.98555	1.025359
38	V	34.64748	1.016774	0.000199	0.000413	35.98356	1.050887
39	E	35.33134	1.008277	0.000100	0.000208	36.01059	1.025035
40	V	35.66405	1.016571	0.000203	0.000424	37.03379	1.050224
41	E	36.33952	1.008173	0.000104	0.000214	37.03529	1.024704
42	V	36.68041	1.016362	0.000209	0.000435	38.08333	1.049545
43	E	37.34758	1.008067	0.000106	0.000219	38.05965	1.024365
44	V	37.69656	1.016149	0.000213	0.000445	39.08367	1.048851
45	E	38.33554	1.007959	0.000108	0.000224	40.18033	1.048141
46	V	38.71249	1.015930	0.000219	0.000455	40.10734	1.023664
47	E	39.36339	1.007848	0.000111	0.000229	41.13064	1.047416
48	V	39.72820	1.015707	0.000223	0.000465	42.27442	1.046676
49	E	40.37113	1.007735	0.000113	0.000234	42.15357	1.022923
50	V	40.74368	1.015478	0.000229	0.000474	43.32034	1.045931
51	E	41.37874	1.007619	0.000116	0.000238	44.36549	1.045153
52	V	41.75892	1.015245	0.000233	0.000485	45.40986	1.044370
53	E	42.38624	1.007501	0.000118	0.000243	46.45343	1.043574
54	V	42.77393	1.015007	0.000238	0.000493	47.49620	1.042765
55	E	43.39363	1.007381	0.000120	0.000248	48.53814	1.041943
56	V	43.78869	1.014765	0.000242	0.000503	49.57925	1.041108
57	E	44.40088	1.007258	0.000123	0.000253	50.61951	1.040261
58	V	44.80321	1.014518	0.000247	0.000512	51.65891	1.039402
59	E	45.40802	1.007133	0.000125	0.000256	52.69745	1.038532
60	V	45.81748	1.014267	0.000251	0.000521	53.73510	1.037650
61	E	46.41502	1.007006	0.000127	0.000261	54.77186	1.036758
62	V	46.83169	1.014011	0.000256	0.000529	55.80771	1.035855
63	E	47.42190	1.006877	0.000129	0.000266	56.84265	1.034942
64	V	47.84524	1.013751	0.000260	0.000538	57.87667	1.034019
65	E	48.42865	1.006746	0.000131	0.000274	58.90976	1.033086
66	V	48.85873	1.013487	0.000264	0.000547	59.94190	1.032145
67	E	49.43526	1.006613	0.000133	0.000277	60.97310	1.031194
68	V	49.87195	1.013219	0.000268	0.000554	62.00333	1.030235
69	E	50.44174	1.006478	0.000135	0.000282	63.03260	1.029269
70	V	50.86469	1.012947	0.000272	0.000562		
71	E	51.44808	1.006341	0.000137	0.000286		
72	V	51.89757	1.012671	0.000276	0.000570		
73	E	52.45428	1.006201	0.000140	0.000291		
74	V	52.90996	1.012391	0.000280	0.000577		
75	E	53.46034	1.006061	0.000140	0.000294		
76	V	53.92206	1.012107	0.000284	0.000584		
77	E	54.46626	1.005918	0.000143	0.000299		
78	V	54.93388	1.011820	0.000287	0.000592		
79	E	55.47203	1.005773	0.000145	0.000296		
80	V	55.94541	1.011529	0.000291	0.000598		
81	E	56.47766	1.005627	0.000146	0.000302		
82	V	56.95665	1.011255	0.000294	0.000605		
83	E	57.48314	1.005479	0.000148	0.000306		
84	V	57.96759	1.010938	0.000297	0.000612		
85	E	58.48847	1.005329	0.000150	0.000310		
86	V	58.97822	1.010637	0.000301	0.000617		
87	E	59.49364	1.005178	0.000151	0.000318		
88	V	59.98855	1.010323	0.000304	0.000624		
89	E	60.49867	1.005026	0.000152	0.000321		
90	V	60.99858	1.010026	0.000307	0.000629		

ECCENTRICITY M		0.01		0.02		0.03	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
61	E	61.50354	1.004871	62.01189	0.000155	62.52501	0.000314
62	V	62.00830	1.009716	63.02864	0.000310	64.06089	0.000635
63	V	62.00826	1.004716	63.02121	0.000155	63.53880	0.000975
64	V	63.01770	1.009404	64.04715	0.000312	65.08821	0.001372
65	V	63.51282	1.004558	64.03021	0.000157	65.58210	0.000982
66	V	64.02679	1.009089	65.06502	0.000316	66.55210	0.001304
67	V	64.51722	1.004401	65.03888	0.000158	66.11453	0.000989
68	V	65.03556	1.008770	66.08224	0.000318	67.56491	0.001281
69	V	65.52146	1.004241	66.04723	0.000160	67.13986	0.000995
70	E	66.04401	1.008450	66.04723	0.000160	67.13986	0.000995
71	V	66.52554	1.004080	67.09880	0.000320	68.57723	0.001238
72	V	67.05213	1.008127	68.05525	0.000161	68.16418	0.001002
73	V	67.52946	1.003918	68.11471	0.000323	69.58905	0.000498
74	V	68.05994	1.007801	68.06295	0.000162	70.12319	0.001008
75	V	68.54658	1.003092	69.12995	0.000326	70.60037	0.000501
76	V	69.06741	1.007474	69.07031	0.000163	71.02981	0.001013
77	V	69.53680	1.003591	70.14575	0.000327	71.61119	0.000504
78	V	70.07455	1.007144	70.07734	0.000164	72.21029	0.001018
79	V	70.54023	1.003426	71.15843	0.000330	72.62149	0.000507
80	V	71.08137	1.006812	71.08403	0.000165	73.25136	0.001023
81	V	71.54349	1.003259	72.17166	0.000332	74.28880	0.000509
82	V	72.08784	1.006479	72.09039	0.000167	75.30597	0.001028
83	V	72.54658	1.003092	73.18421	0.000333	76.32120	0.000511
84	V	73.09399	1.006144	73.09641	0.000167	77.33718	0.001032
85	V	73.54950	1.002924	74.19609	0.000335	78.35123	0.000513
86	V	74.09980	1.005807	75.10209	0.000168	79.36422	0.001036
87	V	74.55226	1.002755	75.20727	0.000337	80.37617	0.000516
88	V	75.10526	1.005468	76.21778	0.000339	81.38706	0.001039
89	V	75.55484	1.002566	76.11242	0.000169	82.39691	0.000517
90	V	76.11039	1.005128	77.22759	0.000340	83.40569	0.001042
91	V	76.55726	1.002416	78.23671	0.000341	84.41343	0.000520
92	V	77.11518	1.004787	78.23671	0.000341	85.42011	0.001044
93	V	77.55950	1.002245	79.24514	0.000343	86.42574	0.000524
94	V	78.11962	1.004444	79.24514	0.000343	87.43032	0.001054
95	V	78.56158	1.002073	80.25288	0.000344	88.43384	0.000526
96	V	79.12372	1.004100	81.25992	0.000345	89.43630	0.001054
97	V	79.56348	1.001901	82.26626	0.000345	90.43772	0.000525
98	V	80.12748	1.003755	83.27190	0.000347	91.43809	0.001054
99	V	80.56521	1.001728	84.27685	0.000347	92.43741	0.000525
100	V	81.13089	1.003410	85.28110	0.000348	93.43569	0.001045
101	V	81.56676	1.001555	86.28464	0.000348		
102	V	82.13395	1.003063	87.28749	0.000348		
103	V	82.56814	1.001382	88.28963	0.000349		
104	V	83.13667	1.002716	89.29182	0.000350		
105	V	83.56935	1.001208	90.29187	0.000349		
106	V	84.13903	1.002368	91.29187	0.000349		
107	V	84.57039	1.001034	92.29122	0.000349		
108	V	85.14105	1.002019				
109	V	85.57125	1.000860				
110	V	86.14272	1.001671				
111	V	86.57193	1.000686				
112	V	87.14404	1.001322				
113	V	87.57244	1.000511				
114	V	88.14502	1.000972				
115	V	88.57278	1.000336				
116	V	89.14564	1.000623				
117	V	89.57294	1.000162				
118	V	90.14591	1.000274				
119	V	90.57293	0.999987				
120	V	91.14584	0.999925				

ECCENTRICITY M		0.01 DIF.			0.02 DIF.			0.03 DIF.		
		1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.
91	E	91.57274	0.999813	0.000174	92.14511	0.999426	0.000349	92.71694	0.998841	0.000521
	V	92.14541	0.999576	0.000349	93.28987	0.998653	0.000696	94.43292	0.997233	0.001043
92	E	92.57238	0.999638	0.000175	93.14419	0.999078	0.000348	93.71526	0.998320	0.000521
	V	93.14464	0.999227	0.000349	94.28783	0.997957	0.000694	95.42911	0.996194	0.001039
93	E	93.57184	0.999464	0.000174	94.14292	0.998731	0.000347	94.71306	0.997800	0.000520
	V	94.14352	0.998879	0.000348	95.28509	0.997263	0.000694	96.42427	0.995157	0.001037
94	E	94.57113	0.999291	0.000173	95.14130	0.998384	0.000347	95.71034	0.997282	0.000518
	V	95.14205	0.998853	0.000347	96.28166	0.996571	0.000692	97.41840	0.994124	0.001033
95	E	95.57025	0.999117	0.000174	96.13934	0.998038	0.000346	96.70711	0.996766	0.000516
	V	96.14024	0.998185	0.000347	97.27754	0.995881	0.000690	98.41149	0.993095	0.001029
96	E	96.56920	0.998944	0.000173	97.13704	0.997693	0.000345	97.70336	0.996251	0.000515
	V	97.13608	0.998739	0.000346	98.27274	0.995193	0.000688	99.40356	0.992070	0.001025
97	E	97.56797	0.998771	0.000173	98.13439	0.997350	0.000343	98.69910	0.995739	0.000512
	V	98.13557	0.997494	0.000345	99.26725	0.994507	0.000686	100.39461	0.991049	0.001021
98	E	98.56657	0.998599	0.000172	99.13139	0.997007	0.000343	99.69433	0.995228	0.000511
	V	99.13272	0.997714	0.000345	100.26107	0.993824	0.000683	101.38464	0.990033	0.001016
99	E	99.56499	0.998427	0.000172	100.12806	0.996666	0.000341	100.68905	0.994720	0.000508
	V	100.12952	0.996806	0.000343	101.25421	0.993144	0.000680	102.37367	0.989022	0.001011
100	E	100.56325	0.998256	0.000171	101.12438	0.996326	0.000340	101.68326	0.994214	0.000506
	V	101.12599	0.996464	0.000342	102.24668	0.992466	0.000678	103.36168	0.988016	0.001006
101	E	101.56133	0.998085	0.000171	102.12037	0.995987	0.000339	102.67697	0.993710	0.000504
	V	102.12211	0.996124	0.000340	103.23847	0.991792	0.000674	104.34870	0.987016	0.001000
102	E	102.55925	0.997915	0.000170	103.11602	0.995650	0.000337	103.67018	0.993209	0.000501
	V	103.11790	0.995784	0.000340	104.22959	0.991121	0.000671	105.33472	0.986021	0.000995
103	E	103.55699	0.997746	0.000169	104.11134	0.995315	0.000335	104.66289	0.992711	0.000498
	V	104.11334	0.995447	0.000337	105.22005	0.990453	0.000668	106.31975	0.985032	0.000989
104	E	104.55467	0.997577	0.000169	105.10632	0.994981	0.000334	105.65511	0.992216	0.000495
	V	105.10845	0.995111	0.000336	106.20983	0.989789	0.000664	107.30380	0.984050	0.000982
105	E	105.55198	0.997410	0.000167	106.10097	0.994649	0.000332	106.64683	0.991724	0.000492
	V	106.10323	0.994776	0.000335	107.19896	0.989129	0.000660	108.28687	0.983074	0.000976
106	E	106.54922	0.997243	0.000167	107.09529	0.994319	0.000330	107.63807	0.991235	0.000489
	V	107.09767	0.994443	0.000333	108.18744	0.988473	0.000656	109.26898	0.982105	0.000969
107	E	107.54630	0.997077	0.000166	108.08928	0.993992	0.000327	108.62882	0.990750	0.000485
	V	108.09179	0.994113	0.000330	109.17526	0.987822	0.000651	110.25012	0.981143	0.000962
108	E	108.54321	0.996912	0.000165	109.08294	0.993666	0.000326	109.61909	0.990267	0.000483
	V	109.08557	0.993784	0.000329	110.16243	0.987174	0.000648	111.23031	0.980188	0.000955
109	E	109.53996	0.996748	0.000164	110.07629	0.993342	0.000324	110.60887	0.989789	0.000478
	V	110.07903	0.993457	0.000327	111.14896	0.986532	0.000642	112.20955	0.979241	0.000947
110	E	110.53654	0.996585	0.000163	111.06931	0.993021	0.000321	111.59819	0.989314	0.000475
	V	111.07216	0.993133	0.000324	112.13486	0.985894	0.000638	113.18785	0.978302	0.000939
111	E	111.53297	0.996424	0.000161	112.06201	0.992702	0.000319	112.58703	0.988843	0.000471
	V	112.06497	0.992810	0.000323	113.12012	0.985261	0.000633	114.16522	0.977370	0.000932
112	E	112.52923	0.996263	0.000161	113.05439	0.992386	0.000316	113.57541	0.988376	0.000467
	V	113.05746	0.992490	0.000320	114.10475	0.984633	0.000628	115.14167	0.976447	0.000923
113	E	113.52534	0.996104	0.000159	114.04647	0.992072	0.000314	114.56332	0.987913	0.000463
	V	114.04963	0.992173	0.000317	115.08876	0.984011	0.000622	116.11720	0.975532	0.000915
114	E	114.52128	0.995945	0.000159	115.03823	0.991761	0.000311	115.55077	0.987454	0.000459
	V	115.04149	0.991858	0.000315	116.07216	0.983394	0.000617	117.09183	0.974626	0.000906
115	E	115.51707	0.995789	0.000156	116.02968	0.991453	0.000308	116.53777	0.986999	0.000455
	V	116.03304	0.991545	0.000313	117.05494	0.982782	0.000612	118.06556	0.973729	0.000897
116	E	116.51270	0.995633	0.000156	117.02083	0.991147	0.000306	117.52432	0.986549	0.000450
	V	117.02427	0.991236	0.000309	118.03712	0.982177	0.000605	119.03840	0.972842	0.000887
117	E	117.50818	0.995479	0.000154	118.01167	0.990845	0.000302	118.51043	0.986104	0.000445
	V	118.01520	0.990929	0.000307	119.01869	0.981577	0.000600	120.01036	0.971963	0.000879
118	E	118.50351	0.995326	0.000153	119.00222	0.990545	0.000300	119.49609	0.985663	0.000441
	V	119.00583	0.990625	0.000304	119.99968	0.980983	0.000594	120.98146	0.971094	0.000869
119	E	119.49868	0.995175	0.000151	119.99247	0.990248	0.000297	120.48132	0.985227	0.000436
	V	119.99615	0.990324	0.000301	120.98007	0.980396	0.000587	121.95169	0.970235	0.000859
120	E	120.49371	0.995026	0.000149	120.98242	0.989955	0.000293	121.46611	0.984796	0.000431
	V	120.98618	0.990026	0.000298	121.95989	0.979815	0.000581	122.92108	0.969386	0.000849

ECCENTRICITY		D-01		2ND DIF.		D-02		2ND DIF.		D-03	
M		1ST DIF.				1ST DIF.				1ST DIF.	2ND DIF.
121	E	121.48859	0.994877	0.000149	121.97209	0.989665	0.000290	122.45048	0.984369	0.000427	0.000427
122	V	121.97591	0.989732	0.000294	122.93913	0.979241	0.000574	123.88963	0.968547	0.000839	0.000839
123	E	122.48332	0.994731	0.000146	122.96146	0.989378	0.000287	123.83443	0.983948	0.000421	0.000421
124	V	122.96535	0.989440	0.000292	123.91780	0.978673	0.000568	124.85734	0.967718	0.000829	0.000829
125	E	123.47790	0.994586	0.000145	123.95056	0.989094	0.000284	124.81796	0.983532	0.000416	0.000416
126	V	123.95450	0.989152	0.000288	124.89591	0.978112	0.000561	125.82424	0.966900	0.000818	0.000818
127	E	124.47235	0.994443	0.000143	124.93937	0.988814	0.000280	125.80108	0.983122	0.000410	0.000410
128	V	124.94337	0.988867	0.000285	125.87347	0.977558	0.000554	126.79034	0.966093	0.000807	0.000807
129	E	125.46665	0.994301	0.000142	125.92791	0.988538	0.000276	126.83830	0.982716	0.000406	0.000406
130	V	125.93195	0.988586	0.000281	126.85048	0.977012	0.000546	127.75563	0.965297	0.000796	0.000796
131	E	126.46081	0.994162	0.000139	126.91618	0.988265	0.000273	127.86611	0.982316	0.000400	0.000400
132	V	126.92026	0.988308	0.000278	127.82695	0.976472	0.000540	128.72014	0.964511	0.000786	0.000786
133	E	127.45483	0.994034	0.000138	127.90417	0.987996	0.000269	128.84804	0.981922	0.000394	0.000394
134	V	127.90829	0.988034	0.000274	128.80289	0.975940	0.000532	129.68388	0.963737	0.000774	0.000774
135	E	128.44872	0.993888	0.000136	128.83190	0.987730	0.000266	129.82957	0.981534	0.000388	0.000388
136	V	128.89606	0.987763	0.000271	129.77831	0.975416	0.000524	130.64686	0.962975	0.000762	0.000762
137	E	129.44247	0.993754	0.000134	129.84779	0.987468	0.000262	130.61072	0.981151	0.000383	0.000383
138	V	129.88355	0.987497	0.000266	130.75321	0.974899	0.000517	131.60908	0.962224	0.000751	0.000751
139	E	130.43609	0.993621	0.000133	130.86658	0.987211	0.000257	131.69150	0.980774	0.000377	0.000377
140	V	130.87079	0.987234	0.000263	131.72760	0.974390	0.000509	132.57056	0.961485	0.000739	0.000739
141	E	131.42958	0.993491	0.000130	131.85354	0.986957	0.000254	132.77190	0.980403	0.000371	0.000371
142	V	131.85776	0.986975	0.000259	132.70149	0.973889	0.000501	133.53132	0.960758	0.000727	0.000727
143	E	132.42295	0.993363	0.000128	132.84024	0.986707	0.000250	133.65194	0.980038	0.000365	0.000365
144	V	132.84448	0.986720	0.000255	133.67488	0.973396	0.000493	134.49137	0.960043	0.000715	0.000715
145	E	133.41619	0.993236	0.000127	133.82671	0.986461	0.000246	134.63162	0.979679	0.000359	0.000359
146	V	133.83095	0.986466	0.000251	134.64779	0.972911	0.000485	135.45070	0.959340	0.000703	0.000703
147	E	134.40930	0.993112	0.000124	134.81293	0.986219	0.000242	135.52109	0.979327	0.000352	0.000352
148	V	134.81717	0.986223	0.000246	135.62023	0.972434	0.000477	136.40936	0.958650	0.000690	0.000690
149	E	135.40229	0.992990	0.000122	135.79891	0.985982	0.000237	136.68992	0.978981	0.000348	0.000348
150	V	135.80316	0.985980	0.000243	136.59219	0.971966	0.000468	137.36733	0.957972	0.000678	0.000678
151	E	136.39516	0.992870	0.000120	136.78466	0.985749	0.000233	137.68656	0.978641	0.000340	0.000340
152	V	136.78890	0.985742	0.000238	137.56370	0.971506	0.000460	138.32463	0.957307	0.000665	0.000665
153	E	137.38791	0.992752	0.000118	137.77018	0.985520	0.000229	138.64687	0.978307	0.000334	0.000334
154	V	137.77441	0.985508	0.000234	138.53476	0.971055	0.000451	139.28129	0.956654	0.000653	0.000653
155	E	138.38055	0.992637	0.000115	138.75547	0.985296	0.000224	139.62485	0.977980	0.000327	0.000327
156	V	138.75968	0.985279	0.000229	139.50537	0.970613	0.000442	140.23730	0.956015	0.000639	0.000639
157	E	139.37307	0.992523	0.000114	139.74055	0.985075	0.000221	140.60251	0.977660	0.000320	0.000320
158	V	139.74474	0.985054	0.000225	140.47555	0.970180	0.000433	141.19269	0.955389	0.000626	0.000626
159	E	140.36548	0.992412	0.000111	140.72541	0.984860	0.000215	141.07986	0.977346	0.000314	0.000314
160	V	140.72957	0.984833	0.000221	141.44530	0.969755	0.000425	142.14747	0.954776	0.000613	0.000613
161	E	141.35779	0.992304	0.000108	141.71006	0.984649	0.000211	142.05690	0.977039	0.000307	0.000307
162	V	141.71419	0.984617	0.000216	142.41464	0.969340	0.000415	143.10164	0.954176	0.000600	0.000600
163	E	142.34998	0.992197	0.000107	142.69450	0.984442	0.000207	143.03364	0.976739	0.000300	0.000300
164	V	142.69859	0.984406	0.000211	143.38358	0.968933	0.000407	144.05523	0.953590	0.000586	0.000586
165	E	143.34208	0.992293	0.000104	143.67874	0.984241	0.000201	144.01008	0.976446	0.000293	0.000293
166	V	143.68279	0.984199	0.000207	144.35211	0.968536	0.000397	145.00825	0.953018	0.000572	0.000572
167	E	144.33407	0.991991	0.000102	144.66278	0.984044	0.000197	144.98624	0.976160	0.000286	0.000286
168	V	144.66679	0.983997	0.000202	145.32026	0.968148	0.000388	145.96071	0.952459	0.000559	0.000559
169	E	145.32596	0.991892	0.000099	145.64663	0.983851	0.000193	145.96212	0.975880	0.000280	0.000280
170	V	145.65059	0.983800	0.000197	146.28803	0.967770	0.000378	146.91262	0.951914	0.000545	0.000545
171	E	146.31775	0.991795	0.000097	146.63030	0.983664	0.000187	146.93773	0.975608	0.000272	0.000272
172	V	146.63420	0.983608	0.000192	147.25543	0.967401	0.000369	147.86401	0.951383	0.000531	0.000531
173	E	147.30945	0.991701	0.000094	147.61378	0.983481	0.000183	147.91307	0.975343	0.000265	0.000265
174	V	147.61762	0.983421	0.000187	148.22247	0.967042	0.000359	148.81487	0.950866	0.000517	0.000517
175	E	148.30106	0.991609	0.000092	148.59708	0.983303	0.000178	148.88816	0.975085	0.000258	0.000258
176	V	148.60086	0.983239	0.000182	149.18917	0.966692	0.000350	149.76523	0.950363	0.000503	0.000503
177	E	149.29258	0.991519	0.000090	149.58021	0.983130	0.000173	149.86299	0.974834	0.000251	0.000251
178	V	149.58392	0.983061	0.000178	150.15552	0.966352	0.000340	150.71511	0.949874	0.000489	0.000489
179	E	150.28402	0.991432	0.000087	150.56318	0.982963	0.000167	150.83758	0.974591	0.000243	0.000243
180	V	150.56681	0.982889	0.000172	151.12154	0.966022	0.000330	151.66451	0.949400	0.000474	0.000474

ECCENTRICITY M		1st DIF.		2ND DIF.		13th DIF.		2ND DIF.		1st DIF.		2ND DIF.	
		0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.03	0.03	0.01	0.01
151	E	151.27536	0.991348	0.000084	151.54597	0.982800	0.000163	0.000163	151.81194	0.974355	0.000236	0.000236	0.000236
152	V	151.54953	0.982722	0.000167	152.08724	0.965702	0.000320	0.000320	152.61345	0.948940	0.000460	0.000460	0.000460
153	E	152.26663	0.991266	0.000082	152.52862	0.962642	0.000158	0.000158	153.05283	0.974126	0.000229	0.000229	0.000229
154	V	152.53209	0.982560	0.000162	153.05283	0.965392	0.000320	0.000320	153.56194	0.948494	0.000446	0.000446	0.000446
155	E	153.25782	0.991187	0.000079	153.51110	0.982489	0.000153	0.000153	153.75997	0.973905	0.000221	0.000221	0.000221
156	V	153.51449	0.982403	0.000157	154.01172	0.965092	0.000300	0.000300	154.51001	0.948064	0.000430	0.000430	0.000430
157	E	154.24893	0.991111	0.000076	154.49345	0.982341	0.000148	0.000148	154.73366	0.973691	0.000214	0.000214	0.000214
158	V	154.49675	0.982252	0.000151	154.98253	0.964802	0.000290	0.000290	155.45765	0.947647	0.000417	0.000417	0.000417
159	E	155.23997	0.991037	0.000074	155.47565	0.982199	0.000142	0.000142	155.70715	0.973485	0.000206	0.000206	0.000206
160	V	155.47885	0.982105	0.000147	155.94705	0.964522	0.000280	0.000280	156.40490	0.947246	0.000401	0.000401	0.000401
161	E	156.23093	0.990966	0.000071	156.45771	0.982062	0.000137	0.000137	156.68043	0.973286	0.000199	0.000199	0.000199
162	V	156.46082	0.981964	0.000141	156.91130	0.964252	0.000270	0.000270	157.35176	0.946859	0.000387	0.000387	0.000387
163	E	157.22183	0.990897	0.000069	157.43964	0.981930	0.000132	0.000132	157.65353	0.973095	0.000191	0.000191	0.000191
164	V	157.44264	0.981829	0.000135	157.87529	0.963993	0.000259	0.000259	158.29825	0.946488	0.000371	0.000371	0.000371
165	E	158.21266	0.990832	0.000065	158.42144	0.981803	0.000127	0.000127	158.62644	0.972912	0.000183	0.000183	0.000183
166	V	158.42434	0.981698	0.000131	158.83904	0.963744	0.000249	0.000249	159.24438	0.946131	0.000357	0.000357	0.000357
167	E	159.20343	0.990769	0.000063	159.40312	0.981681	0.000122	0.000122	159.59917	0.972736	0.000176	0.000176	0.000176
168	V	159.40592	0.981574	0.000124	159.80254	0.963506	0.000238	0.000238	160.19017	0.945789	0.000342	0.000342	0.000342
169	E	160.19414	0.990708	0.000061	160.38469	0.981565	0.000116	0.000116	160.57174	0.972568	0.000168	0.000168	0.000168
170	V	160.38737	0.981454	0.000120	160.76582	0.963278	0.000228	0.000228	161.13563	0.945463	0.000326	0.000326	0.000326
171	E	161.18479	0.990651	0.000057	161.36614	0.981454	0.000111	0.000111	161.54415	0.972408	0.000160	0.000160	0.000160
172	V	161.36871	0.981340	0.000114	161.72888	0.963060	0.000218	0.000218	162.08078	0.945151	0.000312	0.000312	0.000312
173	E	162.13994	0.990596	0.000055	162.34749	0.981339	0.000105	0.000105	162.51641	0.972255	0.000153	0.000153	0.000153
174	V	162.34994	0.981232	0.000108	162.69173	0.962853	0.000207	0.000207	163.02564	0.944855	0.000296	0.000296	0.000296
175	E	163.16593	0.990544	0.000052	163.32874	0.981249	0.000100	0.000100	163.48852	0.972111	0.000144	0.000144	0.000144
176	V	163.33107	0.981129	0.000103	163.65439	0.962657	0.000196	0.000196	163.97021	0.944574	0.000281	0.000281	0.000281
177	E	164.15642	0.990495	0.000049	164.30989	0.981154	0.000095	0.000095	164.46049	0.971974	0.000137	0.000137	0.000137
178	V	164.31210	0.981032	0.000097	164.61686	0.962472	0.000185	0.000185	164.91452	0.944309	0.000265	0.000265	0.000265
179	E	165.14687	0.990449	0.000046	165.29096	0.981065	0.000089	0.000089	165.43233	0.971845	0.000129	0.000129	0.000129
180	V	165.29304	0.980940	0.000092	165.57916	0.962297	0.000175	0.000175	165.85858	0.944059	0.000250	0.000250	0.000250
181	E	166.13728	0.990405	0.000044	166.27194	0.980982	0.000083	0.000083	166.40406	0.971725	0.000120	0.000120	0.000120
182	V	166.27390	0.980854	0.000086	166.54129	0.962132	0.000165	0.000165	166.80240	0.943824	0.000235	0.000235	0.000235
183	E	167.12764	0.990365	0.000040	167.25284	0.980903	0.000079	0.000079	167.37567	0.971612	0.000113	0.000113	0.000113
184	V	167.25467	0.980773	0.000081	167.50327	0.961979	0.000153	0.000153	167.74601	0.943604	0.000220	0.000220	0.000220
185	E	168.11797	0.990327	0.000038	168.23368	0.980831	0.000072	0.000072	168.34718	0.971507	0.000105	0.000105	0.000105
186	V	168.23537	0.980699	0.000074	168.46511	0.961837	0.000142	0.000142	168.68941	0.943401	0.000203	0.000203	0.000203
187	E	169.10826	0.990292	0.000035	169.21444	0.980764	0.000067	0.000067	169.31859	0.971410	0.000097	0.000097	0.000097
188	V	169.21600	0.980629	0.000070	169.42681	0.961705	0.000132	0.000132	169.63262	0.943212	0.000189	0.000189	0.000189
189	E	170.09852	0.990260	0.000032	170.19514	0.980702	0.000062	0.000062	170.28991	0.971321	0.000089	0.000089	0.000089
190	V	170.19656	0.980566	0.000063	170.38840	0.961584	0.000121	0.000121	170.57566	0.943040	0.000172	0.000172	0.000172
191	E	171.08875	0.990231	0.000029	171.17579	0.980646	0.000056	0.000056	171.26115	0.971240	0.000081	0.000081	0.000081
192	V	171.17707	0.980508	0.000058	171.34987	0.961474	0.000110	0.000110	171.51854	0.942882	0.000158	0.000158	0.000158
193	E	172.07896	0.990205	0.000026	172.15638	0.980595	0.000051	0.000051	172.23232	0.971167	0.000073	0.000073	0.000073
194	V	172.15753	0.980456	0.000052	172.31125	0.961375	0.000099	0.000099	172.46128	0.942741	0.000141	0.000141	0.000141
195	E	173.06914	0.990181	0.000024	173.13693	0.980551	0.000044	0.000044	173.20342	0.971102	0.000065	0.000065	0.000065
196	V	173.13794	0.980410	0.000046	173.27253	0.961287	0.000088	0.000088	173.40390	0.942615	0.000126	0.000126	0.000126
197	E	174.05930	0.990161	0.000020	174.11744	0.980511	0.000040	0.000040	174.17447	0.971046	0.000056	0.000056	0.000056
198	V	174.11831	0.980370	0.000040	174.23374	0.961210	0.000077	0.000077	174.34640	0.942505	0.000110	0.000110	0.000110
199	E	175.04944	0.990143	0.000018	175.09792	0.980477	0.000034	0.000034	175.14546	0.970997	0.000049	0.000049	0.000049
200	V	175.09864	0.980335	0.000035	175.19489	0.961144	0.000066	0.000066	175.28881	0.942411	0.000094	0.000094	0.000094
201	E	176.03957	0.990129	0.000014	176.07837	0.980449	0.000028	0.000028	176.11642	0.970956	0.000041	0.000041	0.000041
202	V	176.07895	0.980306	0.000029	176.15598	0.961089	0.000055	0.000055	176.23114	0.942332	0.000079	0.000079	0.000079
203	E	177.02969	0.990117	0.000012	177.05880	0.980427	0.000022	0.000022	177.08734	0.970924	0.000032	0.000032	0.000032
204	V	177.05923	0.980283	0.000023	177.11702	0.961045	0.000044	0.000044	177.17341	0.942269	0.000063	0.000063	0.000063
205	E	178.01980	0.990108	0.000009	178.03921	0.980410	0.000017	0.000017	178.05824	0.970899	0.000025	0.000025	0.000025
206	V	178.03950	0.980265	0.000018	178.07803	0.961011	0.000034	0.000034	178.11563	0.942222	0.000047	0.000047	0.000047
207	E	179.00990	0.990102	0.000006	179.01961	0.980399	0.000011	0.000011	179.02912	0.970883	0.000016	0.000016	0.000016
208	V	179.01975	0.980254	0.000011	179.03902	0.960989	0.000022	0.000022	179.05783	0.942190	0.000032	0.000032	0.000032
209	E	180.00000	0.990099	0.000003	180.00000	0.980393	0.000006	0.000006	180.00000	0.970875	0.000008	0.000008	0.000008
210	V	180.00000	0.980248	0.000006	180.00000	0.960978	0.000011	0.000011	180.00000	0.942174	0.000016	0.000016	0.000016

ECCENTRICITY M	0.04				0.05				0.06			
	1ST DIF.				2ND DIF.				1ST DIF.			
1	E	1.04166	1.041650	0.000029	1.05263	1.052610	1.06383	1.063802	1.06383	1.063802	0.000046	0.000046
2	E	1.08420	1.084166	0.000060	1.10664	1.106601	1.12969	1.129637	1.12969	1.129637	0.000100	0.000100
3	E	2.16836	1.084166	0.000029	2.10524	1.106601	2.25932	1.129637	2.25932	1.129637	0.000070	0.000070
4	E	3.12494	1.041621	0.000060	3.15781	1.052572	3.38886	1.129537	3.38886	1.129537	0.000149	0.000149
5	E	3.25247	1.084106	0.000043	3.31977	1.065253	4.25507	1.063686	4.25507	1.063686	0.000198	0.000198
6	E	4.16651	1.041578	0.000089	4.21033	1.052516	6.38214	1.063475	6.38214	1.063475	0.000248	0.000248
7	E	4.33649	1.084017	0.000057	4.26217	1.064005	6.77638	1.128942	6.77638	1.128942	0.000346	0.000346
8	E	5.20803	1.041521	0.000119	5.26277	1.052442	7.44547	1.063592	7.44547	1.063592	0.000404	0.000404
9	E	5.42038	1.083898	0.000072	5.53242	1.062348	8.50864	1.063172	8.50864	1.063172	0.000550	0.000550
10	E	6.24948	1.041449	0.000149	6.31512	1.052348	10.63441	1.062777	10.63441	1.062777	0.000681	0.000681
11	E	6.50413	1.083749	0.000179	6.63847	1.106052	11.28869	1.127460	11.28869	1.127460	0.000774	0.000774
12	E	7.29085	1.041364	0.000208	7.36735	1.052236	12.41566	1.062545	12.41566	1.062545	0.000865	0.000865
13	E	7.58770	1.083570	0.000101	7.74429	1.105817	14.66792	1.061714	14.66792	1.061714	0.000953	0.000953
14	E	8.33211	1.041263	0.000208	8.41946	1.052106	16.91765	1.125205	16.91765	1.125205	0.001039	0.001039
15	E	8.67106	1.083362	0.000114	8.84983	1.105543	18.06609	1.060683	18.06609	1.060683	0.001165	0.001165
16	E	9.37326	1.041149	0.000238	9.47142	1.051957	20.28667	1.125205	20.28667	1.125205	0.001253	0.001253
17	E	9.75419	1.083124	0.000128	9.95506	1.105230	21.40801	1.059457	21.40801	1.059457	0.001336	0.001336
18	E	10.41428	1.041021	0.000267	10.52321	1.051790	22.52843	1.120426	22.52843	1.120426	0.001430	0.001430
19	E	10.83705	1.082857	0.000170	11.05994	1.104679	23.64790	1.059006	23.64790	1.059006	0.001529	0.001529
20	E	11.45516	1.040879	0.000354	11.57481	1.051605	24.76638	1.118475	24.76638	1.118475	0.001633	0.001633
21	E	11.91961	1.082561	0.000296	12.16443	1.104490	25.88382	1.057529	25.88382	1.057529	0.001743	0.001743
22	E	12.49588	1.040722	0.000157	12.62621	1.051401	26.99228	1.116353	26.99228	1.116353	0.001853	0.001853
23	E	13.00184	1.082236	0.000325	13.26849	1.104062	28.11540	1.056997	28.11540	1.056997	0.001968	0.001968
24	E	13.53643	1.040552	0.000170	13.67739	1.051180	29.22946	1.125205	29.22946	1.125205	0.002082	0.002082
25	E	14.08373	1.081882	0.000354	14.37209	1.103597	30.34232	1.055874	30.34232	1.055874	0.002201	0.002201
26	E	14.57680	1.040368	0.000184	14.72833	1.050940	31.45394	1.114065	31.45394	1.114065	0.002329	0.002329
27	E	15.16522	1.081499	0.000383	15.45181	1.103094	32.56471	1.054674	32.56471	1.054674	0.002457	0.002457
28	E	15.61697	1.040170	0.000198	15.77902	1.050683	33.67329	1.125205	33.67329	1.125205	0.002585	0.002585
29	E	16.24631	1.081088	0.000411	16.57773	1.102553	34.78126	1.053522	34.78126	1.053522	0.002713	0.002713
30	E	16.65693	1.039959	0.000211	16.82942	1.050408	35.88667	1.114065	35.88667	1.114065	0.002841	0.002841
31	E	17.32896	1.080649	0.000439	17.67971	1.101976	36.99228	1.052529	36.99228	1.052529	0.002969	0.002969
32	E	17.69667	1.039734	0.000225	17.87954	1.050115	38.10000	1.125205	38.10000	1.125205	0.003097	0.003097
33	E	18.40714	1.080181	0.000468	18.78107	1.101362	39.20774	1.051743	39.20774	1.051743	0.003225	0.003225
34	E	18.73616	1.039495	0.000239	18.92934	1.049805	40.31540	1.114065	40.31540	1.114065	0.003353	0.003353
35	E	19.48883	1.079686	0.000495	19.88178	1.100712	41.42312	1.050683	41.42312	1.050683	0.003481	0.003481
36	E	19.77540	1.039244	0.000251	19.97882	1.049477	42.53084	1.125205	42.53084	1.125205	0.003609	0.003609
37	E	20.56599	1.079163	0.000523	20.98181	1.100025	43.63856	1.050683	43.63856	1.050683	0.003737	0.003737
38	E	20.81438	1.038979	0.000265	21.02795	1.049133	44.74628	1.114065	44.74628	1.114065	0.003865	0.003865
39	E	21.64460	1.078613	0.000550	22.08111	1.099303	45.85400	1.050683	45.85400	1.050683	0.003993	0.003993
40	E	21.85308	1.038701	0.000278	22.07672	1.048772	46.96172	1.125205	46.96172	1.125205	0.004121	0.004121
41	E	22.72624	1.078035	0.000578	23.17966	1.098546	48.06944	1.050683	48.06944	1.050683	0.004249	0.004249
42	E	22.89149	1.038409	0.000292	23.12512	1.048393	49.17716	1.114065	49.17716	1.114065	0.004377	0.004377
43	E	23.80007	1.077431	0.000504	24.27741	1.097754	50.28488	1.050683	50.28488	1.050683	0.004505	0.004505
44	E	23.92960	1.038105	0.000304	24.17312	1.047999	51.39260	1.125205	51.39260	1.125205	0.004633	0.004633
45	E	24.87687	1.076801	0.000630	25.37434	1.096928	52.50032	1.050683	52.50032	1.050683	0.004761	0.004761
46	E	24.96739	1.037789	0.000316	25.22070	1.047588	53.60804	1.114065	53.60804	1.114065	0.004889	0.004889
47	E	25.95302	1.076144	0.000557	26.47041	1.096067	54.71576	1.050683	54.71576	1.050683	0.005017	0.005017
48	E	26.00485	1.037460	0.000329	26.26786	1.047160	55.82348	1.125205	55.82348	1.125205	0.005145	0.005145
49	E	27.02848	1.075461	0.000683	27.56558	1.095173	56.93120	1.050683	56.93120	1.050683	0.005273	0.005273
50	E	27.04196	1.037118	0.000342	27.31458	1.046717	58.03892	1.114065	58.03892	1.114065	0.005401	0.005401
51	E	28.10323	1.074753	0.000708	28.65983	1.094247	59.14664	1.050683	59.14664	1.050683	0.005529	0.005529
52	E	28.07873	1.036764	0.000354	28.36084	1.046258	60.25436	1.125205	60.25436	1.125205	0.005657	0.005657
53	E	29.17725	1.074020	0.000733	29.75311	1.093287	61.36208	1.050683	61.36208	1.050683	0.005785	0.005785
54	E	29.11513	1.036398	0.000366	29.40662	1.045784	62.46980	1.114065	62.46980	1.114065	0.005913	0.005913
55	E	30.25051	1.073262	0.000758	30.84541	1.092296	63.57752	1.050683	63.57752	1.050683	0.006041	0.006041
56	E	30.15115	1.036020	0.000378	30.45192	1.045294	64.68524	1.125205	64.68524	1.125205	0.006169	0.006169
57	E	31.32299	1.072479	0.000783	31.93668	1.091273	65.79296	1.050683	65.79296	1.050683	0.006297	0.006297
58	E	31.18678	1.035631	0.000389	31.49671	1.044789	66.90068	1.114065	66.90068	1.114065	0.006425	0.006425
59	E	32.39466	1.071672	0.000807	33.02690	1.090220	68.00840	1.050683	68.00840	1.050683	0.006553	0.006553

ECCENTRICITY		0.04		2ND DIF.		0.05		2ND DIF.		0.06		2ND DIF.	
M	E	1ST DIF.		2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	
		0.04	1ST DIF.										
31	E	32.22201	1.035229	0.000402	32.54098	1.044270	0.000519	32.86556	1.053400	0.000646			
	V	33.46550	1.070842	0.000830	34.11604	1.089136	0.001084	34.78094	1.107653	0.001359			
32	E	33.25682	1.034817	0.000412	33.58471	1.043736	0.000534	33.91830	1.052737	0.000663			
	V	34.53549	1.069988	0.000854	35.20406	1.088022	0.001114	35.88720	1.106258	0.001395			
33	E	34.29122	1.034393	0.000424	34.62790	1.043187	0.000549	34.97035	1.052056	0.000681			
	V	35.60460	1.069112	0.000876	36.29094	1.086879	0.001143	36.99202	1.104827	0.001431			
34	E	35.32517	1.033957	0.000436	35.67053	1.042625	0.000562	36.02171	1.051357	0.000699			
	V	36.67282	1.068213	0.000899	37.31655	1.085707	0.001176	38.09538	1.103361	0.001466			
35	E	36.35869	1.033512	0.000445	36.71257	1.042049	0.000572	37.07235	1.050642	0.000715			
	V	37.74011	1.067291	0.000922	38.46115	1.084501	0.001200	39.19724	1.101861	0.001500			
36	E	37.39174	1.033055	0.000457	37.15403	1.041459	0.000590	38.12226	1.049911	0.000731			
	V	38.80646	1.066349	0.000942	39.54443	1.083280	0.001227	40.29757	1.100327	0.001534			
37	E	38.42433	1.032588	0.000467	38.79489	1.040856	0.000603	39.17143	1.049164	0.000747			
	V	39.87184	1.065385	0.000964	40.62646	1.082026	0.001254	41.39633	1.098762	0.001565			
38	E	39.45644	1.032111	0.000477	39.83513	1.040240	0.000616	40.21983	1.048401	0.000763			
	V	40.93824	1.064400	0.000985	41.70720	1.080745	0.001281	42.49350	1.097164	0.001598			
39	E	40.48806	1.031623	0.000488	40.87474	1.039611	0.000629	41.26745	1.047622	0.000779			
	V	41.99963	1.063395	0.001005	42.78664	1.079439	0.001306	43.58903	1.095535	0.001629			
40	E	41.51919	1.031126	0.000497	41.91371	1.038970	0.000641	42.31428	1.046829	0.000793			
	V	43.06200	1.062370	0.001025	43.86475	1.078109	0.001330	44.68291	1.093877	0.001658			
41	E	42.54981	1.030619	0.000507	42.95203	1.038317	0.000653	43.36030	1.046021	0.000808			
	V	44.12333	1.061325	0.001045	44.94150	1.076754	0.001355	47.75510	1.092190	0.001687			
42	E	43.57991	1.030103	0.000516	43.98968	1.037652	0.000665	44.40550	1.045200	0.000821			
	V	45.18359	1.060262	0.001063	46.01688	1.075375	0.001379	46.86557	1.090474	0.001716			
43	E	44.60949	1.029577	0.000526	45.02665	1.036975	0.000677	45.44986	1.044364	0.000836			
	V	46.24277	1.059180	0.001082	47.09085	1.073973	0.001402	47.95430	1.088731	0.001743			
44	E	45.63853	1.029042	0.000535	46.06294	1.036288	0.000687	46.49338	1.043515	0.000849			
	V	47.30085	1.058080	0.001100	48.16340	1.072549	0.001424	49.04127	1.086962	0.001769			
45	E	46.66703	1.028499	0.000543	47.09853	1.035589	0.000699	47.53603	1.042653	0.000852			
	V	48.35782	1.056963	0.001117	49.23451	1.071104	0.001445	50.12643	1.085167	0.001795			
46	E	47.69497	1.027947	0.000552	48.13341	1.034880	0.000709	48.57781	1.041778	0.000875			
	V	49.41365	1.055829	0.001134	50.30414	1.069637	0.001467	51.20978	1.083347	0.001820			
47	E	48.72236	1.027386	0.000561	49.16757	1.034160	0.000720	49.61870	1.040892	0.000886			
	V	50.46832	1.054678	0.001151	51.37229	1.068150	0.001487	52.29128	1.081504	0.001843			
48	E	49.74918	1.026818	0.000568	50.20100	1.033431	0.000729	50.65870	1.039993	0.000899			
	V	51.52183	1.053511	0.001167	52.43894	1.066644	0.001506	53.37092	1.079638	0.001866			
49	E	50.77542	1.026242	0.000576	51.23369	1.032692	0.000739	51.69778	1.039084	0.000909			
	V	52.57416	1.052329	0.001182	53.50406	1.065119	0.001525	54.44867	1.077749	0.001889			
50	E	51.80108	1.025658	0.000584	52.26564	1.031943	0.000749	52.73594	1.038163	0.000921			
	V	53.62530	1.051132	0.001197	54.56763	1.063575	0.001544	55.52451	1.075840	0.001909			
51	E	52.82614	1.025066	0.000592	53.29682	1.031186	0.000757	53.77317	1.037232	0.000931			
	V	54.67522	1.049920	0.001212	55.62964	1.062014	0.001561	56.59842	1.073911	0.001929			
52	E	53.85061	1.024468	0.000598	54.32724	1.030419	0.000767	54.80946	1.036942	0.000942			
	V	55.72391	1.048694	0.001226	56.69008	1.060436	0.001578	57.67038	1.071963	0.001948			
53	E	54.87447	1.023862	0.000606	55.35689	1.039645	0.000774	55.84480	1.035339	0.000951			
	V	56.77136	1.047454	0.001240	57.74892	1.058842	0.001594	58.74038	1.069966	0.001967			
54	E	55.89772	1.023250	0.000612	56.38575	1.028862	0.000783	56.87918	1.034379	0.000960			
	V	57.81757	1.046202	0.001252	58.06116	1.057233	0.001609	59.80839	1.068012	0.001984			
55	E	56.92035	1.022631	0.000619	57.41382	1.028071	0.000791	57.91259	1.033410	0.000989			
	V	58.86250	1.044937	0.001265	59.86176	1.055609	0.001624	60.87440	1.066011	0.002001			
56	E	57.94236	1.022006	0.000625	58.44109	1.027273	0.000798	58.94502	1.032432	0.000978			
	V	59.90616	1.043660	0.001277	60.91574	1.053971	0.001638	61.93840	1.063995	0.002016			
57	E	58.96374	1.021375	0.000631	59.46756	1.026468	0.000805	59.97647	1.031446	0.000986			
	V	60.94853	1.042372	0.001288	61.96805	1.052319	0.001652	63.00036	1.061964	0.002031			
58	E	59.98447	1.020738	0.000637	60.49322	1.025656	0.000812	61.00692	1.030453	0.000993			
	V	61.98961	1.041073	0.001299	63.01871	1.050655	0.001664	64.06028	1.059919	0.002045			
59	E	61.00457	1.020096	0.000642	61.51806	1.024838	0.000818	62.03637	1.029452	0.001001			
	V	63.02937	1.039763	0.001310	64.06769	1.048979	0.001676	65.11814	1.057862	0.002057			
60	E	62.02402	1.019448	0.000648	62.54207	1.024013	0.000825	63.06482	1.028444	0.001008			
	V	64.06781	1.038443	0.001320	65.11498	1.047292	0.001687	66.17394	1.055792	0.002070			

ECCENTRICITY M		0.04			0.05			0.06		
		1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.
61	E	63.04281	1.018796	0.000652	63.56525	1.023183	0.000830	64.09225	1.027430	0.001014
62	V	65.10493	1.037114	0.001329	66.16057	1.045594	0.001698	67.22765	1.074530	0.002081
63	E	64.06095	1.018138	0.000858	64.58760	1.022347	0.000836	65.11866	1.026410	0.001020
64	V	66.14070	1.035776	0.001338	67.20446	1.043886	0.001708	68.27927	1.051620	0.002091
65	E	65.07843	1.017476	0.000662	65.60910	1.021506	0.000841	66.14404	1.025384	0.001026
66	V	67.17513	1.034430	0.001346	68.24663	1.042169	0.001717	69.32879	1.049519	0.002101
67	E	66.09524	1.016810	0.000666	66.62976	1.020659	0.000847	67.16840	1.024354	0.001030
68	V	68.20821	1.033076	0.001354	69.28707	1.040443	0.001726	70.37620	1.047410	0.002109
69	E	67.11138	1.016140	0.000670	67.64957	1.019809	0.000850	68.19171	1.023318	0.001036
70	V	69.23992	1.031714	0.001362	70.32578	1.038709	0.001734	71.42149	1.045293	0.002117
71	E	68.12684	1.015466	0.000674	68.66853	1.018954	0.000855	69.21399	1.022277	0.001041
72	V	70.27027	1.030346	0.001368	71.36275	1.036968	0.001741	72.46466	1.043169	0.002124
73	E	69.14163	1.014788	0.000678	69.68662	1.018095	0.000859	70.23522	1.021233	0.001044
74	V	71.29924	1.028971	0.001375	72.39797	1.035221	0.001747	73.50570	1.041038	0.002131
75	E	70.15574	1.014107	0.000681	70.70385	1.017233	0.000862	71.55541	1.020185	0.001048
76	V	72.32683	1.027590	0.001381	73.43144	1.033468	0.001753	74.54460	1.038903	0.002135
77	E	71.16916	1.013423	0.000684	71.72022	1.016367	0.000866	72.27454	1.019134	0.001051
78	V	73.35303	1.026204	0.001386	74.46315	1.031709	0.001759	75.58136	1.036763	0.002140
79	E	72.18190	1.012736	0.000687	72.73572	1.015498	0.000869	73.29262	1.018080	0.001054
80	V	74.37785	1.024813	0.001391	75.49309	1.029946	0.001763	76.61598	1.034619	0.002144
81	E	73.19394	1.012046	0.000690	73.75034	1.014626	0.000872	74.30965	1.017023	0.001057
82	V	75.40127	1.023418	0.001395	76.52127	1.028179	0.001767	77.64845	1.032472	0.002147
83	E	74.20550	1.011354	0.000692	74.76410	1.013752	0.000874	75.32561	1.015964	0.001059
84	V	76.42328	1.022019	0.001399	77.54768	1.028408	0.001771	78.67878	1.030324	0.002148
85	E	75.21596	1.010660	0.000694	75.77697	1.012876	0.000876	76.34051	1.014904	0.001060
86	V	77.44390	1.020616	0.001403	78.57232	1.024635	0.001773	79.70695	1.028174	0.002150
87	E	76.22592	1.009964	0.000696	76.78897	1.011998	0.000878	77.35436	1.013841	0.001063
88	V	78.46311	1.019211	0.001405	79.59517	1.022860	0.001775	80.73297	1.026023	0.002151
89	E	77.23519	1.009266	0.000698	77.80009	1.011119	0.000879	78.36713	1.012778	0.001063
90	V	79.48091	1.017803	0.001408	80.61626	1.021083	0.001777	81.75685	1.023872	0.002151
91	E	78.24376	1.008567	0.000699	78.81033	1.010239	0.000880	79.37885	1.011715	0.001063
92	V	80.49731	1.016393	0.001410	81.63556	1.019305	0.001778	82.77857	1.021722	0.002150
93	E	79.25162	1.007866	0.000701	79.81969	1.009357	0.000882	80.38950	1.010650	0.001065
94	V	81.51229	1.014982	0.001411	82.65309	1.017527	0.001778	83.79814	1.019574	0.002148
95	E	80.25879	1.007165	0.000701	80.82816	1.008475	0.000882	81.39909	1.009586	0.001064
96	V	82.52586	1.013570	0.001412	83.66884	1.015750	0.001777	84.81557	1.017428	0.002146
97	E	81.26525	1.006463	0.000702	81.83575	1.003753	0.000882	82.40761	1.008523	0.001063
98	V	83.53802	1.012157	0.001413	84.68281	1.013973	0.001777	85.83086	1.015285	0.002143
99	E	82.27101	1.005760	0.000703	82.84246	1.006710	0.000883	83.41507	1.007459	0.001064
100	V	84.54876	1.010744	0.001413	85.69501	1.012198	0.001775	86.84400	1.013146	0.002139
101	E	83.27607	1.005057	0.000703	83.84829	1.005828	0.000882	84.42146	1.006397	0.001062
102	V	85.55809	1.009331	0.001413	86.70544	1.010424	0.001774	87.85501	1.011011	0.002135
103	E	84.28042	1.004354	0.000703	84.85324	1.004946	0.000882	85.42680	1.005337	0.001060
104	V	86.55601	1.007919	0.001412	87.71409	1.008654	0.001770	88.86389	1.008881	0.002130
105	E	85.28407	1.003651	0.000703	85.85730	1.004065	0.000881	86.43108	1.004278	0.001059
106	V	87.57252	1.006509	0.001410	88.72098	1.006886	0.001768	89.87065	1.006757	0.002124
107	E	86.28702	1.002948	0.000703	86.86049	1.003185	0.000880	87.43430	1.003221	0.001057
108	V	88.57762	1.005100	0.001409	89.72610	1.003122	0.001764	90.87529	1.004639	0.002118
109	E	87.28927	1.002246	0.000702	87.86280	1.002307	0.000878	88.43647	1.002166	0.001055
110	V	89.58131	1.003693	0.001407	90.72946	1.003363	0.001759	91.87782	1.002528	0.002111
111	E	88.29081	1.001545	0.000701	88.86423	1.001430	0.000877	89.43758	1.001114	0.001052
112	V	90.58360	1.002289	0.001404	91.73107	1.001608	0.001755	92.87824	1.000424	0.002104
113	E	89.29166	1.000845	0.000700	89.86478	1.000555	0.000875	90.43765	1.000065	0.001049
114	V	91.58449	1.000888	0.001401	92.73093	0.999858	0.001750	93.87657	0.998329	0.002095
115	E	90.29180	1.000145	0.000700	90.86446	0.999682	0.000873	91.43667	0.999020	0.001045
116	V	92.58398	0.999490	0.001398	93.72904	0.998114	0.001744	94.87281	0.996242	0.002087
117	E	91.29125	0.999490	0.000697	91.86327	0.998811	0.000871	92.43464	0.997977	0.001043
118	V	93.58208	0.998096	0.001394	94.72542	0.996376	0.001738	95.86698	0.994165	0.002077
119	E	92.29000	0.998752	0.000696	92.86122	0.997943	0.000868	93.43158	0.996939	0.001038
120	V	94.57878	0.996707	0.001389	95.72006	0.994645	0.001731	96.85908	0.992097	0.002068

ECCENTRICITY M	9.04 1ST DIF.	2ND DIF.	9.05 1ST DIF.	2ND DIF.	9.06 1ST DIF.	2ND DIF.
91 E	93.28806	0.000695	93.85830	0.997078	94.42749	0.000865
91 V	95.57411	0.001385	96.71298	0.992922	97.84912	0.001723
92 E	94.28542	0.000692	94.85451	0.996216	95.42236	0.000862
92 V	96.56805	0.001381	97.70419	0.991206	98.83711	0.001716
93 E	95.28210	0.000690	95.84987	0.995358	96.41621	0.000858
93 V	97.56061	0.001374	98.69369	0.989498	99.82307	0.001708
94 E	96.27809	0.000687	96.84437	0.994503	97.40904	0.000855
94 V	98.55181	0.001369	99.68149	0.987799	100.80701	0.001699
95 E	97.27339	0.000685	97.83802	0.993652	98.40086	0.000851
95 V	99.54165	0.001363	100.66760	0.986109	101.78893	0.001690
96 E	98.26801	0.000682	98.83083	0.992805	99.39167	0.000847
96 V	100.53012	0.001356	101.65202	0.984428	102.76886	0.001681
97 E	99.26195	0.000679	99.82279	0.991962	100.38147	0.000843
97 V	101.51725	0.001349	102.63478	0.982758	103.74681	0.001670
98 E	100.25522	0.000676	100.81392	0.991124	101.37028	0.000838
98 V	102.50304	0.001342	103.61388	0.981098	104.72278	0.001660
99 E	101.24781	0.000673	101.80420	0.990290	102.35809	0.000834
99 V	103.48750	0.001335	104.59533	0.979448	105.69680	0.001650
100 E	102.23974	0.000669	102.79367	0.989462	103.34492	0.000828
100 V	104.47062	0.001326	105.57314	0.977810	106.66888	0.001638
101 E	103.23099	0.000665	103.78231	0.988638	104.35077	0.000824
101 V	105.45243	0.001318	106.54932	0.976183	107.63904	0.001627
102 E	104.22159	0.000661	104.77013	0.987820	105.31566	0.000818
102 V	106.43393	0.001310	107.52389	0.974569	108.60728	0.001614
103 E	105.21153	0.000657	105.75713	0.987008	106.29957	0.000812
103 V	107.44121	0.001300	108.49686	0.972967	109.57363	0.001602
104 E	106.20082	0.000653	106.74334	0.986202	107.28254	0.000806
104 V	108.39004	0.001292	109.48823	0.971377	110.53811	0.001590
105 E	107.18946	0.000648	107.72874	0.985401	108.26455	0.000801
105 V	109.36666	0.001281	110.43804	0.969801	109.50072	0.001576
106 E	108.17746	0.000644	108.71334	0.984607	109.24563	0.000794
106 V	110.34202	0.001272	111.40627	0.968238	112.46150	0.001563
107 E	109.16481	0.000639	109.69716	0.983819	110.22577	0.000788
107 V	111.31611	0.001261	112.37296	0.966689	113.42044	0.001549
108 E	110.15154	0.000634	110.68020	0.983037	111.20498	0.000782
108 V	112.28895	0.001251	113.33811	0.965154	114.37758	0.001535
109 E	111.13763	0.000630	111.66246	0.982263	112.18329	0.000774
109 V	113.26035	0.001240	114.30175	0.963633	115.33293	0.001521
110 E	112.12310	0.000623	112.64396	0.981495	113.16068	0.000768
110 V	114.23093	0.001229	115.26388	0.962127	116.28652	0.001506
111 E	113.10795	0.000619	113.62469	0.980734	114.13718	0.000761
111 V	115.20008	0.001217	116.22451	0.960637	117.23835	0.001490
112 E	114.09219	0.000612	114.60467	0.979981	115.11279	0.000753
112 V	116.16803	0.001206	117.18367	0.959162	118.18845	0.001475
113 E	115.07582	0.000607	115.58391	0.979235	116.08752	0.000746
113 V	117.13479	0.001193	118.14138	0.957702	119.13683	0.001460
114 E	116.05885	0.000602	116.56240	0.978497	117.06138	0.000738
114 V	118.02313	0.001182	119.09763	0.956259	120.08353	0.001443
115 E	117.04129	0.000595	117.54017	0.977766	118.03438	0.000731
115 V	119.06477	0.001169	120.05247	0.954831	121.02855	0.001428
116 E	118.02313	0.000589	118.51721	0.977044	119.06653	0.000722
116 V	120.02802	0.001156	121.00589	0.953421	121.97192	0.001410
117 E	119.00440	0.000583	119.49354	0.976330	119.97784	0.000714
117 V	120.99013	0.001143	121.95791	0.952027	122.91367	0.001394
118 E	120.98508	0.000576	120.46917	0.975623	120.94832	0.000707
118 V	121.95111	0.001130	122.90856	0.950651	123.85380	0.001376
119 E	120.96520	0.000570	121.44409	0.974926	121.91798	0.000697
119 V	122.91097	0.001116	123.85786	0.949291	124.79235	0.001360
120 E	121.94475	0.000563	122.41833	0.974237	122.88683	0.000689
120 V	123.86972	0.001103	124.80581	0.947950	125.72933	0.001341

ECCENTRICITY M		0.04		0.05		0.06	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
121	E	122.92375	0.978998	0.000556	123.39189	0.973556	0.000681
	V	124.82739	0.957669	0.001089	125.75243	0.946626	0.001324
122	E	123.90220	0.978448	0.000550	124.36477	0.972885	0.000571
	V	125.78399	0.956595	0.001074	126.69775	0.945320	0.001306
123	E	124.88010	0.977906	0.000542	125.33699	0.972222	0.000663
	V	126.73952	0.955535	0.001060	127.64179	0.944033	0.001287
124	E	125.85748	0.977371	0.000535	126.30856	0.971568	0.000654
	V	127.69401	0.954489	0.001046	128.58455	0.942764	0.001269
125	E	126.83432	0.976843	0.000528	127.27948	0.970924	0.000644
	V	128.64747	0.953458	0.001031	129.52606	0.941514	0.001250
126	E	127.81064	0.976322	0.000521	128.24977	0.970289	0.000635
	V	129.59991	0.952443	0.001015	130.46635	0.940284	0.001230
127	E	128.78645	0.975810	0.000512	129.21944	0.969664	0.000625
	V	130.55135	0.951442	0.001001	131.40552	0.939072	0.001212
128	E	129.76175	0.975304	0.000506	130.18849	0.969048	0.000616
	V	131.50181	0.950457	0.000985	132.34330	0.937879	0.001193
129	E	130.73656	0.974807	0.000497	131.15693	0.968442	0.000606
	V	132.45130	0.949488	0.000969	133.28000	0.936707	0.001172
130	E	131.71088	0.974317	0.000490	132.12477	0.967846	0.000596
	V	133.39983	0.948534	0.000954	134.21556	0.935554	0.001153
131	E	132.68471	0.973836	0.000481	133.09203	0.967259	0.000587
	V	134.34743	0.947597	0.000937	135.14998	0.934421	0.001133
132	E	133.65808	0.973362	0.000474	134.05872	0.966683	0.000576
	V	135.29411	0.946675	0.000922	136.08339	0.933308	0.001113
133	E	134.63097	0.972897	0.000465	135.02483	0.966117	0.000566
	V	136.23988	0.945770	0.000905	137.01550	0.932215	0.001093
134	E	135.60341	0.972439	0.000458	135.99039	0.965562	0.000555
	V	137.18476	0.944882	0.000888	137.94665	0.931143	0.001072
135	E	136.57540	0.971991	0.000448	136.95541	0.965016	0.000546
	V	138.12877	0.944010	0.000872	138.87674	0.930092	0.001051
136	E	137.54695	0.971550	0.000441	137.91989	0.964481	0.000535
	V	139.07192	0.943154	0.000856	139.80580	0.929061	0.001031
137	E	138.51807	0.971118	0.000432	138.88385	0.963957	0.000524
	V	140.01424	0.942316	0.000838	140.73385	0.928051	0.001010
138	E	139.48877	0.970695	0.000423	139.84729	0.963444	0.000513
	V	140.95573	0.941495	0.000821	141.66091	0.927062	0.000989
139	E	140.45905	0.970281	0.000414	140.81023	0.962941	0.000503
	V	141.89642	0.940691	0.000804	142.58701	0.926095	0.000967
140	E	141.42892	0.969875	0.000406	141.77268	0.962849	0.000492
	V	142.83633	0.939904	0.000787	143.51216	0.925149	0.000946
141	E	142.39840	0.969478	0.000397	142.73465	0.961968	0.000481
	V	143.77546	0.939135	0.000769	144.43638	0.924224	0.000925
142	E	143.36749	0.969090	0.000388	143.69615	0.961498	0.000470
	V	144.71385	0.938384	0.000751	145.35970	0.923321	0.000903
143	E	144.33620	0.968711	0.000379	144.65719	0.961039	0.000459
	V	145.65150	0.937650	0.000734	146.28214	0.922440	0.000881
144	E	145.30454	0.968341	0.000370	145.61778	0.960591	0.000448
	V	146.58843	0.936935	0.000715	147.20372	0.921581	0.000859
145	E	146.27252	0.967981	0.000360	146.57793	0.960154	0.000437
	V	147.52467	0.936237	0.000698	148.12447	0.920744	0.000837
146	E	147.24015	0.967629	0.000352	147.53766	0.959729	0.000425
	V	148.46023	0.935557	0.000680	149.00439	0.919928	0.000816
147	E	148.20744	0.967287	0.000342	148.49698	0.959316	0.000413
	V	149.39512	0.934896	0.000661	149.96353	0.919135	0.000793
148	E	149.17439	0.966955	0.000332	149.45589	0.958913	0.000403
	V	150.32938	0.934253	0.000643	150.88189	0.918364	0.000771
149	E	150.14103	0.966631	0.000324	150.41441	0.958522	0.000391
	V	151.26300	0.933628	0.000625	151.79951	0.917616	0.000748
150	E	151.10734	0.966318	0.000313	151.37255	0.958143	0.000379
	V	152.19603	0.933022	0.000606	152.71640	0.916890	0.000726

ECCENTRICITY

		10 ⁻⁰⁴ DIF.	2ND DIF.	10 ⁻⁰⁵ DIF.	2ND DIF.	10 ⁻⁰⁶ DIF.	2ND DIF.
151	E	152.07336	0.966013	152.33033	0.000305	152.58296	0.000367
152	V	153.12846	0.932435	153.63259	0.000587	154.12612	0.000703
153	E	153.03908	0.965719	153.28775	0.000294	153.53219	0.000413
154	V	154.06053	0.931866	154.54809	0.000569	155.02553	0.000783
155	E	154.00451	0.965434	154.46294	0.000285	154.48102	0.000398
156	V	154.99165	0.931317	155.46294	0.000549	155.92418	0.000756
157	E	154.96967	0.965159	155.20157	0.000275	155.42946	0.000386
158	V	155.92243	0.930786	156.37715	0.000531	156.82211	0.000730
159	E	155.93456	0.964893	156.15799	0.000266	156.37753	0.000371
160	V	156.85271	0.930274	157.29075	0.000512	157.71933	0.000703
161	E	156.89920	0.964638	157.11411	0.000255	157.32525	0.000357
162	V	157.78249	0.929781	158.20377	0.000493	158.61588	0.000766
163	E	157.86359	0.964392	158.06993	0.000246	158.27262	0.000344
164	V	158.71179	0.929307	159.11621	0.000474	159.51178	0.000730
165	E	158.75539	0.964156	159.02546	0.000236	159.21966	0.000329
166	V	159.64065	0.928853	160.02811	0.000454	160.40705	0.000623
167	E	159.79168	0.963930	159.98072	0.000226	160.16639	0.000316
168	V	160.56906	0.928417	160.93950	0.000436	161.30173	0.000596
169	E	161.75539	0.963714	160.93572	0.000216	161.11282	0.000301
170	V	161.49706	0.928002	161.85038	0.000415	162.19584	0.000569
171	E	161.71890	0.963508	161.89047	0.000206	162.05896	0.000287
172	V	162.42467	0.927605	162.76080	0.000397	163.08940	0.000543
173	E	162.68221	0.963312	162.84499	0.000196	163.00482	0.000273
174	V	163.35190	0.927228	163.67076	0.000377	163.98245	0.000516
175	E	163.64534	0.963127	163.79328	0.000185	163.95043	0.000259
176	V	164.27877	0.926871	164.58030	0.000357	164.87502	0.000489
177	E	164.60829	0.962951	164.75337	0.000176	164.89579	0.000245
178	V	165.20530	0.926533	165.48943	0.000338	165.76711	0.000461
179	E	165.57108	0.962786	165.70725	0.000165	165.84092	0.000230
180	V	166.13152	0.926214	166.39818	0.000319	166.65878	0.000435
181	E	166.53370	0.962630	166.66094	0.000156	166.65878	0.000216
182	V	167.05743	0.925916	167.30658	0.000298	167.55004	0.000408
183	E	167.49619	0.962485	167.61446	0.000145	167.73055	0.000202
184	V	167.98307	0.925637	168.21464	0.000279	168.44091	0.000381
185	E	168.45854	0.962351	168.56782	0.000134	168.67508	0.000188
186	V	169.42077	0.925378	169.12240	0.000259	169.33143	0.000354
187	E	169.83358	0.962226	169.52103	0.000125	169.61943	0.000173
188	V	170.38288	0.925138	170.02987	0.000240	170.22163	0.000326
189	E	170.75850	0.962112	170.47410	0.000114	170.56363	0.000159
190	V	171.34489	0.924919	170.93708	0.000219	171.11153	0.000300
191	E	171.68322	0.961915	171.84405	0.000200	172.00115	0.000272
192	V	172.30680	0.924539	172.37988	0.000093	172.45160	0.000131
193	E	172.60776	0.961696	172.75081	0.000180	172.89053	0.000245
194	V	173.26863	0.924380	173.33262	0.000083	173.39540	0.000115
195	E	173.53214	0.961332	173.65737	0.000159	173.77969	0.000218
196	V	174.23039	0.961759	174.28526	0.000073	174.33910	0.000101
197	E	174.45638	0.924400	174.56377	0.000140	174.66866	0.000191
198	V	175.19209	0.961650	175.23783	0.000063	175.28272	0.000087
199	E	175.38050	0.924120	175.47003	0.000120	175.55747	0.000164
200	V	176.15373	0.961644	176.19034	0.000052	176.22626	0.000073
201	E	176.30452	0.924020	176.37617	0.000100	176.44614	0.000136
202	V	177.11534	0.961603	177.14280	0.000041	177.16974	0.000058
203	E	177.22846	0.923940	177.28221	0.000080	177.33470	0.000109
204	V	178.07691	0.961571	178.09522	0.000032	178.11319	0.000043
205	E	178.15234	0.923880	178.18818	0.000060	178.22318	0.000082
206	V	179.03846	0.961551	179.04762	0.000020	179.05660	0.000029
207	E	179.07618	0.923840	179.09410	0.000040	179.11160	0.000045
208	V	180.00000	0.961540	180.00000	0.000011	180.00000	0.000014
209	E	180.00000	0.923820	180.00000	0.000020	180.00000	0.000027

ECCENTRICITY
M

		0.07 1ST DIF.	2ND DIF.	0.08 1ST DIF.	2ND DIF.	0.09 1ST DIF.	2ND DIF.
1	E	1.07526		1.08695		1.09889	
2	V	1.15336		1.17768		1.20267	
3	E	2.13050		2.17387		2.19775	
4	V	2.30865		2.35528		2.40525	
5	E	3.22568	0.000057	3.26072	0.000068	3.29652	0.000079
6	V	3.45983	0.000123	3.53273	0.000148	3.60766	0.000175
7	E	4.30077	0.000086	4.34746	0.000102	4.39518	0.000120
8	V	4.61282	0.000183	4.70996	0.000220	4.80980	0.000262
9	E	5.37575	0.000114	5.43407	0.000136	5.49367	0.000160
10	V	5.76556	0.000244	5.88690	0.000295	6.01159	0.000349
11	E	6.45059	0.000142	6.52052	0.000170	6.59197	0.000199
12	V	6.91800	0.000305	7.06348	0.000367	7.21295	0.000436
13	E	7.52525	0.000170	7.60675	0.000203	7.69003	0.000239
14	V	8.07008	0.000365	8.23961	0.000440	8.41379	0.000523
15	E	8.59272	0.000199	8.69276	0.000237	8.78781	0.000278
16	V	9.22173	0.000426	9.41523	0.000513	9.61402	0.000608
17	E	9.67396	0.000226	9.77849	0.000270	9.88527	0.000317
18	V	10.37289	0.000485	10.59026	0.000585	10.81355	0.000694
19	E	10.74795	0.000255	10.86391	0.000303	10.98237	0.000357
20	V	11.52351	0.000546	11.76464	0.000656	12.01231	0.000779
21	E	11.82166	0.000282	11.94901	0.000336	12.07908	0.000395
22	V	12.67353	0.000604	12.93829	0.000728	13.21020	0.000862
23	E	13.89505	0.000309	13.03373	0.000370	13.17536	0.000433
24	V	13.82288	0.000663	14.11114	0.000799	14.40714	0.000947
25	E	13.96811	0.000337	14.11805	0.000401	14.27117	0.000471
26	V	14.97151	0.000722	15.28312	0.000868	15.60306	0.001029
27	E	15.04081	0.000365	15.20194	0.000434	15.36646	0.000509
28	V	16.11936	0.000779	16.45417	0.000938	16.79787	0.001111
29	E	16.11311	0.000391	16.28536	0.000466	16.46121	0.000547
30	V	17.26637	0.000837	17.62421	0.001006	17.99148	0.001192
31	E	17.18499	0.000418	17.36828	0.000498	17.55538	0.000584
32	V	18.41249	0.000894	18.79317	0.001075	19.18382	0.001272
33	E	18.25644	0.000444	18.45067	0.000529	18.64892	0.000620
34	V	19.55766	0.000950	19.96099	0.001141	20.37481	0.001351
35	E	19.32741	0.000470	19.53251	0.000560	19.74181	0.000656
36	V	20.70183	0.001005	21.12761	0.001208	21.56438	0.001429
37	E	20.39788	0.000497	20.61375	0.000590	20.83401	0.000692
38	V	21.84493	0.001060	22.29295	0.001274	22.75243	0.001506
39	E	21.46783	0.000522	21.69438	0.000621	21.92548	0.000727
40	V	22.98692	0.001115	23.45695	0.001337	23.93891	0.001581
41	E	22.53724	0.000547	22.77435	0.000651	23.01619	0.000762
42	V	24.12774	0.001168	24.61955	0.001402	25.12373	0.001656
43	E	23.60607	0.000572	23.85364	0.000680	24.10611	0.000796
44	V	25.26735	0.001220	25.78069	0.001464	26.30682	0.001729
45	E	24.67431	0.000597	24.93222	0.000709	25.19519	0.000829
46	V	26.40568	0.001273	26.94031	0.001525	27.48811	0.001800
47	E	25.74192	0.000621	26.01007	0.000738	26.28341	0.000863
48	V	27.54268	0.001323	28.09833	0.001586	28.66752	0.001871
49	E	26.80889	0.000645	27.08715	0.000766	27.37074	0.000895
50	V	28.67831	0.001374	29.25471	0.001645	29.84500	0.001940
51	E	27.87519	0.000669	28.16343	0.000793	28.45714	0.000927
52	V	29.81252	0.001423	30.40939	0.001703	31.02048	0.002007
53	E	28.94080	0.000692	29.23890	0.000821	29.54258	0.000959
54	V	30.94526	0.001471	31.56231	0.001761	32.19387	0.002073
55	E	30.00570	0.000714	30.31352	0.000847	30.62703	0.000989
56	V	32.07648	0.001519	32.71341	0.001816	33.36514	0.002138
57	E	31.06986	0.000737	31.38726	0.000874	31.71046	0.001019
58	V	33.20613	0.001565	33.86265	0.001870	34.53420	0.002200
59	E	32.13325	0.000759	32.46011	0.000899	32.79284	0.001049
60	V	34.33418	0.001611	35.00995	0.001924	35.70100	0.002261

ECCENTRICITY	$\frac{1}{10^0}$ DIF.	2ND DIF.	$\frac{1}{10^8}$ DIF.	2ND DIF.	$\frac{1}{10^6}$ DIF.	2ND DIF.
31	E	33.19587	1.062618	0.000781	33.53203	1.071921
32	V	35.46057	1.126388	0.001655	36.15529	1.071921
33	E	34.25769	1.061817	0.000801	34.60300	1.070973
34	V	36.58525	1.124689	0.001699	37.29859	1.143306
35	E	35.371868	1.060994	0.000823	35.67300	1.070000
36	V	37.70820	1.122948	0.001741	38.43982	1.141230
37	E	36.37883	1.060152	0.000842	36.74201	1.069004
38	V	38.82937	1.121165	0.001783	39.57893	1.139107
39	E	37.43812	1.059289	0.000863	37.80999	1.067985
40	V	39.94871	1.119342	0.001823	40.71587	1.136936
41	E	38.49653	1.058408	0.000881	38.87693	1.066944
42	V	41.06619	1.117479	0.001863	41.85059	1.134721
43	E	39.55404	1.057507	0.000901	39.94282	1.065881
44	V	42.18177	1.115578	0.001901	42.98305	1.132461
45	E	40.61063	1.056588	0.000919	41.00761	1.064797
46	V	43.29541	1.113641	0.001937	44.11321	1.130159
47	E	41.66628	1.055652	0.000936	42.07131	1.063693
48	V	44.40707	1.111667	0.001974	45.24102	1.127816
49	E	42.72098	1.054697	0.000955	43.13387	1.062569
50	V	45.51673	1.109658	0.002009	46.36646	1.125434
51	E	43.77470	1.053726	0.000971	44.19530	1.061425
52	V	46.62435	1.107616	0.002042	47.48947	1.123013
53	E	44.82744	1.052739	0.000987	45.25556	1.060263
54	V	47.72989	1.105541	0.002075	48.61003	1.120556
55	E	45.87918	1.051736	0.001003	46.31465	1.059083
56	V	48.63332	1.103434	0.002107	49.72809	1.118063
57	E	46.92989	1.050717	0.001019	47.37253	1.057886
58	V	49.93462	1.101298	0.002136	50.84363	1.115536
59	E	47.97958	1.049683	0.001034	48.42920	1.056672
60	V	51.03375	1.099132	0.002166	51.95660	1.112977
61	E	49.02821	1.048635	0.001048	49.48465	1.055442
62	V	52.13069	1.096938	0.002194	53.06699	1.110387
63	E	50.07579	1.047573	0.001062	50.53884	1.054196
64	V	53.22541	1.094717	0.002221	54.17476	1.107767
65	E	51.12228	1.046497	0.001076	51.59178	1.052935
66	V	54.31788	1.092470	0.002247	55.27988	1.105119
67	E	52.16769	1.045409	0.001088	52.64344	1.051660
68	V	55.40808	1.090199	0.002271	56.38232	1.102445
69	E	53.21200	1.044308	0.001101	53.69381	1.050372
70	V	56.49598	1.087905	0.002294	57.48207	1.099745
71	E	54.25520	1.043196	0.001112	54.74288	1.049070
72	V	57.58157	1.085588	0.002317	58.57909	1.097022
73	E	55.29727	1.042072	0.001124	55.79064	1.047757
74	V	58.66482	1.083250	0.002338	59.67336	1.094275
75	E	56.33820	1.040937	0.001135	56.83707	1.046431
76	V	59.74571	1.080893	0.002357	60.76487	1.091508
77	E	57.37800	1.039792	0.001145	57.88216	1.045094
78	V	60.82423	1.078516	0.002377	61.85359	1.088722
79	E	58.41664	1.038637	0.001155	58.92591	1.043747
80	V	61.90035	1.076122	0.002394	62.93951	1.085916
81	E	59.45411	1.037471	0.001164	59.96830	1.042390
82	V	62.97406	1.073711	0.002411	64.02260	1.083094
83	E	60.49041	1.036300	0.001173	61.00932	1.041024
84	V	64.04534	1.071284	0.002427	65.10286	1.080257
85	E	61.52553	1.035119	0.001181	62.04897	1.039648
86	V	65.11419	1.068844	0.002440	66.18027	1.077405
87	E	62.55946	1.033930	0.001189	63.08724	1.038265
88	V	66.18058	1.066389	0.002455	67.25480	1.074540
89	E	63.59219	1.032734	0.001196	64.12411	1.036875
90	V	67.24450	1.063923	0.002466	68.32647	1.071663

ECCENTRICITY
M

		0.07 1ST DIF.	2ND DIF.	0.08 1ST DIF.	2ND DIF.	0.09 1ST DIF.	2ND DIF.
61	E	64.62372	1.031531	0.001203	0.001398	1.039262	0.001597
	V	68.30595	1.061446	0.002477	0.002887	1.075682	0.003309
62	E	65.65404	1.030321	0.001210	0.001404	1.037659	0.001603
	V	69.36490	1.029108	0.002488	0.002896	1.072366	0.003316
63	E	66.68315	1.029106	0.001215	0.001409	1.036050	0.001609
	V	70.42137	1.056462	0.002496	0.002904	1.069044	0.003322
64	E	67.71104	1.027885	0.001221	0.001415	1.034437	0.001613
	V	71.47532	1.053957	0.002505	0.002910	1.065717	0.003327
65	E	68.73770	1.026660	0.001225	0.001420	1.032819	0.001618
	V	72.52677	1.051445	0.002512	0.002916	1.062287	0.003330
66	E	69.76313	1.025430	0.001230	0.001423	1.031199	0.001620
	V	73.57570	1.048928	0.002517	0.002921	1.059056	0.003331
67	E	70.78732	1.024196	0.001234	0.001427	1.029575	0.001624
	V	74.62210	1.046405	0.002523	0.002923	1.055724	0.003332
68	E	71.81028	1.022959	0.001237	0.001430	1.027950	0.001625
	V	75.66598	1.043879	0.002526	0.002926	1.052293	0.003331
69	E	72.83200	1.021719	0.001240	0.001432	1.026323	0.001627
	V	76.70733	1.041349	0.002530	0.002926	1.049064	0.003329
70	E	73.85248	1.020476	0.001243	0.001436	1.024495	0.001628
	V	77.74615	1.038818	0.002531	0.002926	1.045738	0.003326
71	E	74.87171	1.019232	0.001244	0.001436	1.023066	0.001629
	V	78.78243	1.036285	0.002533	0.002924	1.042417	0.003321
72	E	75.88969	1.017985	0.001247	0.001436	1.021438	0.001628
	V	79.81618	1.033752	0.002533	0.002923	1.039102	0.003315
73	E	76.90643	1.016738	0.001247	0.001437	1.019811	0.001627
	V	80.84740	1.031220	0.002532	0.002918	1.035793	0.003309
74	E	77.92192	1.015489	0.001249	0.001436	1.018185	0.001626
	V	81.87609	1.028689	0.002531	0.002915	1.032493	0.003300
75	E	78.93616	1.014240	0.001249	0.001436	1.016561	0.001624
	V	82.90225	1.026160	0.002529	0.002908	1.029202	0.003291
76	E	79.94915	1.012992	0.001248	0.001434	1.014939	0.001622
	V	83.92589	1.023635	0.002525	0.002903	1.025921	0.003281
77	E	80.96090	1.011744	0.001248	0.001434	1.013321	0.001618
	V	84.94700	1.021114	0.002521	0.002895	1.022652	0.003269
78	E	81.97139	1.010496	0.001248	0.001431	1.011706	0.001615
	V	85.96560	1.018598	0.002516	0.002887	1.019395	0.003257
79	E	82.98064	1.009251	0.001245	0.001428	1.010095	0.001611
	V	86.98169	1.016088	0.002510	0.002877	1.016151	0.003244
80	E	83.98865	1.008006	0.001245	0.001425	1.008488	0.001607
	V	87.99527	1.013584	0.002504	0.002868	1.012921	0.003230
81	E	84.99541	1.006764	0.001242	0.001422	1.006887	0.001601
	V	89.00636	1.011088	0.002496	0.002856	1.009707	0.003214
82	E	86.00094	1.005525	0.001239	0.001419	1.005291	0.001596
	V	90.01496	1.008600	0.002488	0.002845	1.006508	0.003199
83	E	87.00523	1.004288	0.001237	0.001414	1.003701	0.001590
	V	91.02108	1.006120	0.002480	0.002833	1.003327	0.003181
84	E	88.00828	1.003054	0.001234	0.001409	1.002117	0.001584
	V	92.02473	1.003650	0.002470	0.002819	1.000163	0.003164
85	E	89.01011	1.001824	0.001230	0.001404	1.000340	0.001577
	V	93.02592	1.001190	0.002460	0.002804	0.997018	0.003145
86	E	90.01070	1.000598	0.001226	0.001399	0.998971	0.001569
	V	94.02466	0.998742	0.002448	0.002790	0.993892	0.003126
87	E	91.01008	0.999377	0.001221	0.001392	0.997409	0.001562
	V	95.02097	0.996304	0.002438	0.002775	0.990787	0.003105
88	E	92.00824	0.998160	0.001217	0.001387	0.995855	0.001554
	V	96.01485	0.993879	0.002425	0.002758	0.987702	0.003085
89	E	93.00519	0.996948	0.001212	0.001380	0.994309	0.001546
	V	97.00632	0.991467	0.002412	0.002741	0.984639	0.003063
90	E	94.00093	0.995741	0.001207	0.001373	0.992773	0.001536
	V	97.99538	0.989068	0.002399	0.002723	0.981598	0.003041

ECCENTRICITY M		0.07			0.08			0.09		
		1ST	2ND	DIF.	1ST	2ND	DIF.	1ST	2ND	DIF.
91	E	94.99547	0.001201	95.56208	0.992986	0.001365	96.12716	0.991246	0.001527	0.001527
	V	98.98207	0.002384	100.11142	0.982861	0.002705	101.23675	0.978581	0.003017	0.003017
92	E	95.98882	0.001195	96.55371	0.991628	0.001358	97.11689	0.989728	0.001518	0.001518
	V	99.96638	0.002370	101.09159	0.980175	0.002686	102.21234	0.975586	0.002995	0.002995
93	E	96.98097	0.001189	97.54399	0.990278	0.001350	98.10511	0.988220	0.001508	0.001508
	V	100.94834	0.002355	102.06910	0.977508	0.002667	103.18496	0.972616	0.002970	0.002970
94	E	97.97194	0.001182	98.53292	0.988937	0.001341	99.09183	0.986723	0.001497	0.001497
	V	101.92796	0.002338	103.04396	0.974862	0.002646	104.15463	0.969671	0.002945	0.002945
95	E	98.96174	0.001175	99.52053	0.987604	0.001333	100.07707	0.985236	0.001487	0.001487
	V	102.90526	0.002323	104.01620	0.972236	0.002626	105.12138	0.986751	0.002920	0.002920
96	E	99.95037	0.001168	100.50681	0.986280	0.001324	101.06083	0.983761	0.001475	0.001475
	V	103.88025	0.002305	104.98583	0.969631	0.002605	106.08524	0.963858	0.002893	0.002893
97	E	100.93784	0.001161	101.49177	0.984966	0.001314	102.04313	0.982296	0.001465	0.001465
	V	104.85296	0.002288	105.95288	0.967048	0.002583	107.04623	0.960990	0.002868	0.002868
98	E	101.92416	0.001153	102.47544	0.983661	0.001305	103.02397	0.980843	0.001453	0.001453
	V	105.82339	0.002270	106.91737	0.964488	0.002560	108.00438	0.958150	0.002840	0.002840
99	E	102.90933	0.001145	103.45780	0.982366	0.001295	104.00337	0.979402	0.001441	0.001441
	V	106.79158	0.002252	107.87932	0.961950	0.002538	108.95971	0.955337	0.002813	0.002813
100	E	103.89337	0.001137	104.43888	0.981081	0.001285	104.98135	0.977974	0.001428	0.001428
	V	107.75753	0.002233	108.83875	0.959436	0.002514	109.91226	0.952551	0.002786	0.002786
101	E	104.87628	0.001128	105.41869	0.979807	0.001274	105.95790	0.976558	0.001416	0.001416
	V	108.72126	0.002213	109.79570	0.956945	0.002491	110.86206	0.949795	0.002756	0.002756
102	E	105.85806	0.001119	106.39723	0.978543	0.001264	106.93306	0.975154	0.001404	0.001404
	V	109.68281	0.002194	110.75018	0.954478	0.002467	111.80912	0.974067	0.002728	0.002728
103	E	106.83874	0.001110	107.37452	0.977291	0.001252	107.80682	0.973764	0.001390	0.001390
	V	110.64217	0.002174	111.70221	0.952036	0.002442	112.75349	0.944368	0.002699	0.002699
104	E	107.81832	0.001101	108.35057	0.976049	0.001242	108.87921	0.972386	0.001378	0.001378
	V	111.59939	0.002153	112.65183	0.949619	0.002417	113.69519	0.941698	0.002670	0.002670
105	E	108.79680	0.001092	109.32539	0.974819	0.001230	109.85023	0.971023	0.001363	0.001363
	V	112.55448	0.002131	113.59906	0.947227	0.002392	114.63425	0.939059	0.002639	0.002639
106	E	109.77421	0.001082	110.23899	0.973601	0.001218	110.81990	0.969673	0.001350	0.001350
	V	113.50745	0.002111	114.54392	0.944861	0.002366	115.57070	0.936450	0.002609	0.002609
107	E	110.75054	0.001071	111.27139	0.972395	0.001206	111.78824	0.968337	0.001336	0.001336
	V	114.45833	0.002089	115.48644	0.942521	0.002340	116.50457	0.933872	0.002578	0.002578
108	E	111.72581	0.001062	112.24259	0.971201	0.001194	112.75526	0.967015	0.001322	0.001322
	V	115.40715	0.002066	116.42665	0.940208	0.002313	117.43590	0.931324	0.002548	0.002548
109	E	112.70003	0.001051	113.21261	0.970019	0.001182	113.72097	0.965708	0.001307	0.001307
	V	116.35393	0.002044	117.36457	0.937921	0.002287	118.36470	0.928808	0.002516	0.002516
110	E	113.67321	0.001040	114.18146	0.968850	0.001169	114.68538	0.964416	0.001292	0.001292
	V	117.29868	0.002021	118.30023	0.935662	0.002259	119.29103	0.926323	0.002485	0.002485
111	E	114.64535	0.001030	115.14915	0.967694	0.001156	115.64852	0.963138	0.001278	0.001278
	V	118.24144	0.001998	119.23366	0.933430	0.002232	120.21490	0.923871	0.002452	0.002452
112	E	115.61648	0.001019	116.11570	0.966550	0.001144	116.61039	0.961875	0.001263	0.001263
	V	119.18222	0.001975	120.16489	0.931225	0.002205	121.33635	0.921450	0.002421	0.002421
113	E	116.58661	0.001007	117.08112	0.965420	0.001130	117.57102	0.960628	0.001247	0.001247
	V	120.12105	0.001951	121.09393	0.929049	0.002176	122.05541	0.919062	0.002388	0.002388
114	E	117.55573	0.000996	118.04543	0.964304	0.001116	118.53042	0.959396	0.001232	0.001232
	V	121.05795	0.001926	122.02083	0.926901	0.002148	122.97212	0.916706	0.002356	0.002356
115	E	118.52388	0.000984	119.00863	0.963201	0.001103	119.48860	0.958180	0.001216	0.001216
	V	121.99295	0.001903	122.94562	0.924782	0.002119	123.88650	0.914383	0.002323	0.002323
116	E	119.49105	0.000973	119.97074	0.962111	0.001090	120.44558	0.956979	0.001201	0.001201
	V	122.92508	0.001877	123.86831	0.922691	0.002091	124.79859	0.912093	0.002290	0.002290
117	E	120.45726	0.000961	120.93177	0.961036	0.001075	121.40137	0.955795	0.001184	0.001184
	V	123.85735	0.001853	124.78894	0.920630	0.002061	125.70843	0.909836	0.002257	0.002257
118	E	121.42252	0.000948	121.89175	0.959975	0.001061	122.35600	0.954626	0.001169	0.001169
	V	124.78679	0.001828	125.70754	0.918597	0.002033	126.61604	0.907613	0.002223	0.002223
119	E	122.38684	0.000936	122.85068	0.958928	0.001047	123.30947	0.953474	0.001152	0.001152
	V	125.71443	0.001802	126.62413	0.915595	0.002002	127.52146	0.905423	0.002190	0.002190
120	E	123.35024	0.000924	123.80857	0.957895	0.001033	124.26181	0.952338	0.001136	0.001136
	V	126.64030	0.001776	127.53875	0.914622	0.001973	128.42473	0.903267	0.002156	0.002156

ECCENTRICITY M		0.07				0.08				0.09			
		1ST DIF.				2ND DIF.				1ST DIF.			
121	E	124.31273	0.962490	0.000911	124.76545	0.956877	0.001018	125.21303	0.951219	0.001119	125.21303	0.951219	0.001119
122	V	121.56441	0.924114	0.001751	128.45143	0.912679	0.001943	129.32588	0.901145	0.002122	129.32588	0.901145	0.002122
123	E	125.27432	0.961591	0.000899	125.72132	0.955873	0.001004	126.16315	0.950116	0.001103	126.16315	0.950116	0.001103
124	V	128.48680	0.922389	0.001725	129.36220	0.910766	0.001913	130.22493	0.899057	0.002088	130.22493	0.899057	0.002088
125	E	126.23503	0.960706	0.000885	126.67621	0.954885	0.000988	127.11218	0.949030	0.001086	127.11218	0.949030	0.001086
126	V	129.40749	0.920691	0.001698	130.27108	0.908883	0.001883	131.12194	0.897004	0.002053	131.12194	0.897004	0.002053
127	E	127.19486	0.959833	0.000873	127.63012	0.953912	0.000973	128.06014	0.947961	0.001069	128.06014	0.947961	0.001069
128	V	130.32651	0.919020	0.001671	131.17811	0.907031	0.001852	132.01692	0.894984	0.002020	132.01692	0.894984	0.002020
129	E	128.15384	0.958974	0.000859	128.58307	0.952953	0.000959	129.00705	0.946910	0.001051	129.00705	0.946910	0.001051
130	V	131.24309	0.917375	0.001645	132.08332	0.905209	0.001822	132.90992	0.892999	0.001985	132.90992	0.892999	0.001985
131	E	129.11196	0.958127	0.000847	129.53508	0.952010	0.000943	129.95292	0.945875	0.001035	129.95292	0.945875	0.001035
132	V	132.15964	0.915756	0.001619	132.98674	0.9033418	0.001791	133.80097	0.891049	0.001950	133.80097	0.891049	0.001950
133	E	130.06926	0.957295	0.000832	130.48616	0.951082	0.000928	130.89778	0.944858	0.001017	130.89778	0.944858	0.001017
134	V	133.07381	0.914165	0.001591	133.88840	0.901658	0.001760	134.59010	0.889133	0.001916	134.59010	0.889133	0.001916
135	E	131.02573	0.956476	0.000819	131.43633	0.950170	0.000912	131.84164	0.943858	0.001000	131.84164	0.943858	0.001000
136	V	133.98641	0.912602	0.001563	134.78832	0.899929	0.001729	135.57735	0.887252	0.001881	135.57735	0.887252	0.001881
137	E	135.80703	0.909556	0.001509	136.58312	0.894565	0.001667	137.34636	0.883595	0.001811	137.34636	0.883595	0.001811
138	V	133.89038	0.954101	0.000777	134.28152	0.947527	0.000865	134.66739	0.940963	0.000947	134.66739	0.940963	0.000947
139	E	136.71511	0.908075	0.001481	137.47805	0.894930	0.001635	138.22817	0.881819	0.001776	138.22817	0.881819	0.001776
140	V	134.84372	0.953337	0.000764	135.22820	0.946678	0.000849	135.60742	0.940034	0.000929	135.60742	0.940034	0.000929
141	E	137.62173	0.906622	0.001453	138.37138	0.893327	0.001603	139.10825	0.880078	0.001741	139.10825	0.880078	0.001741
142	V	135.79631	0.952587	0.000750	136.17405	0.945845	0.000833	136.54654	0.939123	0.000911	136.54654	0.939123	0.000911
143	E	138.52692	0.905197	0.001425	139.26313	0.891755	0.001572	139.98662	0.878372	0.001706	139.98662	0.878372	0.001706
144	V	136.74816	0.951852	0.000735	137.11908	0.945028	0.000817	137.48477	0.938229	0.000894	137.48477	0.938229	0.000894
145	E	139.43072	0.903799	0.001398	140.15335	0.890215	0.001540	140.86333	0.876701	0.001671	140.86333	0.876701	0.001671
146	V	137.69929	0.951131	0.000721	138.06330	0.944227	0.000801	138.42212	0.937354	0.000875	138.42212	0.937354	0.000875
147	E	140.33315	0.902431	0.001368	141.04206	0.888707	0.001508	141.73839	0.875066	0.001635	141.73839	0.875066	0.001635
148	V	141.23425	0.950424	0.000707	139.00674	0.9473442	0.000785	139.35862	0.936496	0.000858	139.35862	0.936496	0.000858
149	E	139.59945	0.949732	0.000692	139.94942	0.942674	0.000768	140.29428	0.935657	0.000839	140.29428	0.935657	0.000839
150	V	142.13402	0.899778	0.001312	142.81507	0.885786	0.001445	143.48376	0.871901	0.001565	143.48376	0.871901	0.001565
151	E	140.54850	0.949054	0.000678	140.89134	0.941922	0.000752	141.22911	0.934836	0.000821	141.22911	0.934836	0.000821
152	V	143.03252	0.898495	0.001283	143.69945	0.884374	0.001412	144.35413	0.870372	0.001529	144.35413	0.870372	0.001529
153	E	141.49689	0.948391	0.000663	141.83253	0.941187	0.000735	142.16315	0.934034	0.000802	142.16315	0.934034	0.000802
154	V	143.92976	0.897240	0.001255	144.58244	0.882994	0.001380	145.22301	0.868878	0.001494	145.22301	0.868878	0.001494
155	E	142.44464	0.947743	0.000648	142.77300	0.940469	0.000718	143.99640	0.933249	0.000785	143.99640	0.933249	0.000785
156	V	144.82577	0.896014	0.001226	145.46409	0.881647	0.001347	146.09043	0.867420	0.001458	146.09043	0.867420	0.001458
157	E	143.39174	0.947110	0.000633	143.71276	0.939767	0.000702	144.02888	0.932484	0.000765	144.02888	0.932484	0.000765
158	V	145.72059	0.894817	0.001197	146.34442	0.880331	0.001316	146.95643	0.865997	0.001423	146.95643	0.865997	0.001423
159	E	144.33824	0.946492	0.000618	144.65185	0.939082	0.000685	144.96062	0.931737	0.000747	144.96062	0.931737	0.000747
160	V	146.61424	0.893649	0.001168	147.22347	0.879048	0.001283	147.82104	0.864610	0.001387	147.82104	0.864610	0.001387
161	E	145.28412	0.945888	0.000604	145.59026	0.938414	0.000668	145.89163	0.931008	0.000729	145.89163	0.931008	0.000729
162	V	147.50675	0.892510	0.001139	148.10126	0.877798	0.001250	148.68429	0.863258	0.001352	148.68429	0.863258	0.001352
163	E	146.22943	0.945300	0.000588	146.52802	0.937762	0.000652	146.82192	0.930298	0.000710	146.82192	0.930298	0.000710
164	V	148.39815	0.891400	0.001110	148.97784	0.876579	0.001219	149.54624	0.861942	0.001316	149.54624	0.861942	0.001316
165	E	147.17415	0.944727	0.000573	147.46515	0.937128	0.000634	147.75153	0.929607	0.000691	147.75153	0.929607	0.000691
166	V	149.28847	0.890319	0.001081	149.85324	0.875394	0.001185	150.40690	0.860661	0.001281	150.40690	0.860661	0.001281
167	E	148.11832	0.944169	0.000558	148.40166	0.936510	0.000618	148.68046	0.928934	0.000673	148.68046	0.928934	0.000673
168	V	150.17773	0.889268	0.001051	150.72748	0.874241	0.001153	151.26631	0.859416	0.001245	151.26631	0.859416	0.001245
169	E	149.06195	0.943626	0.000543	149.33757	0.935910	0.000600	149.60874	0.928280	0.000654	149.60874	0.928280	0.000654
170	V	151.06598	0.888246	0.001022	151.60060	0.873120	0.001121	152.12452	0.858207	0.001209	152.12452	0.858207	0.001209
171	E	150.00504	0.943099	0.000527	150.27290	0.935327	0.000583	150.53639	0.927645	0.000635	150.53639	0.927645	0.000635
172	V	151.95323	0.887254	0.000992	152.47263	0.872033	0.001087	152.98155	0.857033	0.001174	152.98155	0.857033	0.001174
173	E	150.94763	0.942587	0.000512	151.20766	0.934071	0.000566	151.46342	0.927029	0.000616	151.46342	0.927029	0.000616
174	V	152.83953	0.886291	0.000963	153.34361	0.870977	0.001056	153.83745	0.855895	0.001138	153.83745	0.855895	0.001138
175	E	151.88972	0.942091	0.000496	152.14187	0.934212	0.000549	152.38985	0.926432	0.000597	152.38985	0.926432	0.000597
176	V	153.72488	0.885358	0.000933	154.21357	0.869955	0.001022	154.69224	0.854793	0.001102	154.69224	0.854793	0.001102

ECCENTRICITY W		1st DIF.				2ND DIF.				1st DIF.				2ND DIF.			
		151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166
151	E	152.83133	0.941610	0.000481	153.07555	0.933681	0.000531	153.31570	0.925854	0.000578	153.54597	0.925854	0.000578	153.77248	0.925854	0.000578	154.00000
152	V	154.60934	0.884454	0.000904	155.08253	0.868965	0.000990	155.54597	0.853726	0.001067	156.00560	0.849815	0.000924	156.46737	0.845728	0.000889	156.93053
153	E	155.77248	0.941144	0.000466	156.00872	0.933166	0.000515	156.46737	0.925854	0.000578	156.93053	0.917978	0.000531	157.39366	0.911913	0.000483	157.85726
154	V	156.46737	0.883580	0.000874	157.00000	0.868009	0.000956	157.46737	0.853726	0.001067	157.93053	0.849815	0.000924	158.39366	0.845728	0.000889	158.85726
155	E	157.25757	0.940695	0.000449	158.00000	0.932670	0.000496	158.46737	0.925854	0.000578	158.93053	0.917978	0.000531	159.39366	0.911913	0.000483	159.85726
156	V	158.46737	0.883736	0.000844	159.00000	0.868009	0.000956	159.46737	0.853726	0.001067	159.93053	0.849815	0.000924	160.39366	0.845728	0.000889	160.85726
157	E	159.60934	0.940260	0.000435	160.00000	0.932190	0.000480	160.46737	0.925854	0.000578	160.93053	0.917978	0.000531	161.39366	0.911913	0.000483	161.85726
158	V	160.77248	0.883984	0.000815	161.00000	0.868009	0.000956	161.46737	0.853726	0.001067	161.93053	0.849815	0.000924	162.39366	0.845728	0.000889	162.85726
159	E	161.93053	0.940190	0.000427	162.00000	0.931728	0.000462	162.46737	0.925854	0.000578	162.93053	0.917978	0.000531	163.39366	0.911913	0.000483	163.85726
160	V	162.93053	0.884136	0.000803	163.00000	0.868009	0.000956	163.46737	0.853726	0.001067	163.93053	0.849815	0.000924	164.39366	0.845728	0.000889	164.85726
161	E	164.00000	0.940000	0.000411	164.00000	0.931284	0.000444	164.46737	0.925854	0.000578	164.93053	0.917978	0.000531	165.39366	0.911913	0.000483	165.85726
162	V	165.00000	0.884000	0.000800	165.00000	0.868009	0.000956	165.46737	0.853726	0.001067	165.93053	0.849815	0.000924	166.39366	0.845728	0.000889	166.85726
163	E	166.00000	0.940000	0.000400	166.00000	0.930857	0.000427	166.46737	0.925854	0.000578	166.93053	0.917978	0.000531	167.39366	0.911913	0.000483	167.85726
164	V	167.00000	0.884000	0.000800	167.00000	0.868009	0.000956	167.46737	0.853726	0.001067	167.93053	0.849815	0.000924	168.39366	0.845728	0.000889	168.85726
165	E	168.00000	0.940000	0.000400	168.00000	0.930857	0.000427	168.46737	0.925854	0.000578	168.93053	0.917978	0.000531	169.39366	0.911913	0.000483	169.85726
166	V	169.00000	0.884000	0.000800	169.00000	0.868009	0.000956	169.46737	0.853726	0.001067	169.93053	0.849815	0.000924	170.39366	0.845728	0.000889	170.85726
167	E	170.00000	0.940000	0.000400	170.00000	0.930857	0.000427	170.46737	0.925854	0.000578	170.93053	0.917978	0.000531	171.39366	0.911913	0.000483	171.85726
168	V	171.00000	0.884000	0.000800	171.00000	0.868009	0.000956	171.46737	0.853726	0.001067	171.93053	0.849815	0.000924	172.39366	0.845728	0.000889	172.85726
169	E	172.00000	0.940000	0.000400	172.00000	0.930857	0.000427	172.46737	0.925854	0.000578	172.93053	0.917978	0.000531	173.39366	0.911913	0.000483	173.85726
170	V	173.00000	0.884000	0.000800	173.00000	0.868009	0.000956	173.46737	0.853726	0.001067	173.93053	0.849815	0.000924	174.39366	0.845728	0.000889	174.85726
171	E	174.00000	0.940000	0.000400	174.00000	0.930857	0.000427	174.46737	0.925854	0.000578	174.93053	0.917978	0.000531	175.39366	0.911913	0.000483	175.85726
172	V	175.00000	0.884000	0.000800	175.00000	0.868009	0.000956	175.46737	0.853726	0.001067	175.93053	0.849815	0.000924	176.39366	0.845728	0.000889	176.85726
173	E	176.00000	0.940000	0.000400	176.00000	0.930857	0.000427	176.46737	0.925854	0.000578	176.93053	0.917978	0.000531	177.39366	0.911913	0.000483	177.85726
174	V	177.00000	0.884000	0.000800	177.00000	0.868009	0.000956	177.46737	0.853726	0.001067	177.93053	0.849815	0.000924	178.39366	0.845728	0.000889	178.85726
175	E	178.00000	0.940000	0.000400	178.00000	0.930857	0.000427	178.46737	0.925854	0.000578	178.93053	0.917978	0.000531	179.39366	0.911913	0.000483	179.85726
176	V	179.00000	0.884000	0.000800	179.00000	0.868009	0.000956	179.46737	0.853726	0.001067	179.93053	0.849815	0.000924	180.39366	0.845728	0.000889	180.85726
177	E	180.00000	0.940000	0.000400	180.00000	0.930857	0.000427	180.46737	0.925854	0.000578	180.93053	0.917978	0.000531	181.39366	0.911913	0.000483	181.85726
178	V	181.00000	0.884000	0.000800	181.00000	0.868009	0.000956	181.46737	0.853726	0.001067	181.93053	0.849815	0.000924	182.39366	0.845728	0.000889	182.85726
179	E	182.00000	0.940000	0.000400	182.00000	0.930857	0.000427	182.46737	0.925854	0.000578	182.93053	0.917978	0.000531	183.39366	0.911913	0.000483	183.85726
180	V	183.00000	0.884000	0.000800	183.00000	0.868009	0.000956	183.46737	0.853726	0.001067	183.93053	0.849815	0.000924	184.39366	0.845728	0.000889	184.85726

ECCENTRICITY
M

		0.10 1ST DIF.	2ND DIF.	0.11 1ST DIF.	2ND DIF.	0.12 1ST DIF.	2ND DIF.
1	E	1.11110		1.12359		1.13635	
2	V	1.22836		1.25479		1.28197	
3	E	2.52216		2.24712		2.27265	
4	V	2.45662		2.50945		2.56380	
5	E	3.33312	0.000093	3.37055	0.000107	3.40882	0.000122
6	V	3.68468	0.000205	3.76388	0.000239	3.84535	0.000275
7	E	4.44395	0.000139	4.49381	0.000160	4.54480	0.000183
8	V	4.91242	0.000308	5.01795	0.000357	5.12650	0.000412
9	E	5.55459	0.000185	5.61687	0.000213	5.68055	0.000243
10	V	6.13976	0.000409	6.27155	0.000476	6.40709	0.000549
11	E	6.66500	0.000232	6.73965	0.000266	6.81599	0.000304
12	V	7.36659	0.000512	7.52455	0.000594	7.688701	0.000684
13	E	7.77513	0.000277	7.86212	0.000318	7.95107	0.000363
14	V	8.59280	0.000612	8.77684	0.000711	8.96610	0.000820
15	E	8.88494	0.000323	8.98422	0.000372	9.08572	0.000424
16	V	9.81830	0.000713	10.02830	0.000828	10.24423	0.000954
17	E	9.99438	0.000368	10.10589	0.000423	10.21989	0.000483
18	V	11.04299	0.000814	11.27882	0.000944	11.52128	0.001087
19	E	11.10340	0.000413	11.22709	0.000475	11.35352	0.000541
20	V	12.26676	0.000912	12.52828	0.001059	12.79711	0.001220
21	E	12.21197	0.000459	12.34776	0.000527	12.48655	0.000600
22	V	13.48953	0.001011	13.77656	0.001174	14.07159	0.001351
23	E	13.32004	0.000502	13.46786	0.000577	13.61893	0.000658
24	V	14.71118	0.001109	15.02356	0.001285	15.34459	0.001479
25	E	14.42756	0.000547	14.58733	0.000628	14.75058	0.000716
26	V	15.93163	0.001205	16.26916	0.001398	16.61598	0.001608
27	E	15.53449	0.000590	15.70612	0.000677	15.88147	0.000772
28	V	17.15078	0.001300	17.51326	0.001508	17.88564	0.001734
29	E	16.64078	0.000633	16.82418	0.000727	17.01152	0.000828
30	V	18.36854	0.001395	18.75573	0.001616	19.15344	0.001859
31	E	17.74640	0.000677	17.94147	0.000776	18.14069	0.000883
32	V	19.58481	0.001488	19.99649	0.001724	20.41926	0.001981
33	E	18.85130	0.000718	19.05793	0.000824	19.26893	0.000938
34	V	20.79949	0.001580	21.23541	0.001829	21.68228	0.002101
35	E	19.95544	0.000760	20.17352	0.000871	20.59617	0.000991
36	V	22.01251	0.001670	22.47241	0.001933	22.94447	0.002220
37	E	21.03340	0.000801	21.28819	0.000919	21.52237	0.001044
38	V	23.22377	0.001759	23.70736	0.002035	24.20364	0.002335
39	E	22.16128	0.000841	22.440190	0.000964	22.64748	0.001096
40	V	24.43318	0.001847	24.94019	0.002135	25.46035	0.002449
41	E	23.26290	0.000881	23.51460	0.001009	23.77144	0.001146
42	V	25.64066	0.001932	26.17077	0.002234	26.71450	0.002561
43	E	24.36360	0.000920	24.62625	0.001054	24.89420	0.001197
44	V	26.84612	0.002017	27.39903	0.002329	27.96598	0.002669
45	E	25.46334	0.000959	25.73680	0.001097	26.01571	0.001246
46	V	28.04948	0.002099	28.62487	0.002424	29.21469	0.002776
47	E	26.56208	0.000997	26.84621	0.001140	27.13593	0.001293
48	V	29.25067	0.002180	29.84819	0.002515	30.46032	0.002878
49	E	27.65979	0.001034	27.95443	0.001182	28.25482	0.001341
50	V	30.44959	0.002259	31.06890	0.002606	31.70337	0.002980
51	E	28.75643	0.001070	29.06144	0.001223	29.37231	0.001386
52	V	31.64618	0.002337	32.28692	0.002692	32.94314	0.003078
53	E	29.85196	0.001105	30.16718	0.001263	30.48837	0.001431
54	V	32.84035	0.002411	33.50217	0.002778	34.17974	0.003172
55	E	30.94635	0.001141	31.27162	0.001302	31.60296	0.001474
56	V	34.03205	0.002485	34.71455	0.002860	35.41307	0.003265
57	E	32.03957	0.001174	32.37472	0.001340	32.71604	0.001516
58	V	35.22118	0.002557	35.92400	0.002940	36.64305	0.003354
59	E	33.13158	0.001208	33.47644	0.001377	33.82755	0.001558
60	V	36.40769	0.002625	37.13042	0.003018	37.86959	0.003440

ECCENTRICITY M		0.10 DIF.			2ND DIF.			0.11 DIF.			2ND DIF.			0.12 DIF.			2ND DIF.		
		1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD	1ST	2ND	3RD
31	E	34.22235	1.090770	0.001240	34.57675	1.100309	0.001413	34.93747	1.109918	0.001598	34.93747	1.109918	0.001598	34.93747	1.109918	0.001598	34.93747	1.109918	0.001598
32	V	37.59150	1.183816	0.002693	38.33375	1.203333	0.003093	39.09261	1.223017	0.003523	39.09261	1.223017	0.003523	39.09261	1.223017	0.003523	39.09261	1.223017	0.003523
33	E	35.31185	1.089498	0.001272	35.67561	1.203860	0.001449	36.04575	1.108282	0.001636	36.04575	1.108282	0.001636	36.04575	1.108282	0.001636	36.04575	1.108282	0.001636
34	V	38.77256	1.181057	0.002759	39.53392	1.200166	0.003167	40.31202	1.219413	0.003604	40.31202	1.219413	0.003604	40.31202	1.219413	0.003604	40.31202	1.219413	0.003604
35	E	36.40004	1.088196	0.001302	36.77299	1.199378	0.001482	37.15236	1.106608	0.001674	37.15236	1.106608	0.001674	37.15236	1.106608	0.001674	37.15236	1.106608	0.001674
36	V	39.95080	1.178235	0.002822	40.73085	1.196930	0.003236	41.52733	1.215733	0.003680	41.52733	1.215733	0.003680	41.52733	1.215733	0.003680	41.52733	1.215733	0.003680
37	E	37.48691	1.086864	0.001332	37.86885	1.095862	0.001516	38.25726	1.104898	0.001710	38.25726	1.104898	0.001710	38.25726	1.104898	0.001710	38.25726	1.104898	0.001710
38	V	41.12615	1.175352	0.002883	41.92448	1.193626	0.003304	42.73973	1.211978	0.003755	42.73973	1.211978	0.003755	42.73973	1.211978	0.003755	42.73973	1.211978	0.003755
39	E	38.57241	1.085503	0.001361	38.96316	1.094314	0.001548	39.36041	1.103153	0.001745	39.36041	1.103153	0.001745	39.36041	1.103153	0.001745	39.36041	1.103153	0.001745
40	V	42.29856	1.172410	0.002942	43.11473	1.190257	0.003369	43.94789	1.208153	0.003825	43.94789	1.208153	0.003825	43.94789	1.208153	0.003825	43.94789	1.208153	0.003825
41	E	39.65652	1.084114	0.001389	40.05590	1.092736	0.001578	40.46179	1.101374	0.001779	40.46179	1.101374	0.001779	40.46179	1.101374	0.001779	40.46179	1.101374	0.001779
42	V	43.46797	1.169411	0.002999	44.30156	1.186826	0.003431	45.15215	1.204260	0.003893	45.15215	1.204260	0.003893	45.15215	1.204260	0.003893	45.15215	1.204260	0.003893
43	E	40.73922	1.082697	0.001417	41.14703	1.091127	0.001609	41.56135	1.109563	0.001811	41.56135	1.109563	0.001811	41.56135	1.109563	0.001811	41.56135	1.109563	0.001811
44	V	44.63433	1.166358	0.003053	45.48490	1.183334	0.003492	46.35245	1.200303	0.003957	46.35245	1.200303	0.003957	46.35245	1.200303	0.003957	46.35245	1.200303	0.003957
45	E	41.82048	1.081255	0.001442	42.23652	1.089490	0.001637	42.65907	1.097721	0.001842	42.65907	1.097721	0.001842	42.65907	1.097721	0.001842	42.65907	1.097721	0.001842
46	V	45.79758	1.163252	0.003106	46.66468	1.179786	0.003548	47.54873	1.196283	0.004020	47.54873	1.196283	0.004020	47.54873	1.196283	0.004020	47.54873	1.196283	0.004020
47	E	42.90026	1.079787	0.001468	43.32434	1.087825	0.001665	43.75492	1.095848	0.001873	43.75492	1.095848	0.001873	43.75492	1.095848	0.001873	43.75492	1.095848	0.001873
48	V	46.95767	1.160095	0.003157	47.84086	1.176183	0.003603	48.74094	1.192206	0.004077	48.74094	1.192206	0.004077	48.74094	1.192206	0.004077	48.74094	1.192206	0.004077
49	E	43.97856	1.078294	0.001493	44.41048	1.086133	0.001692	44.84887	1.093947	0.001901	44.84887	1.093947	0.001901	44.84887	1.093947	0.001901	44.84887	1.093947	0.001901
50	V	48.11456	1.156890	0.003205	49.01339	1.172527	0.003656	49.92901	1.188073	0.004133	49.92901	1.188073	0.004133	49.92901	1.188073	0.004133	49.92901	1.188073	0.004133
51	E	45.05533	1.076778	0.001516	45.49489	1.084416	0.001717	45.94089	1.092019	0.001928	45.94089	1.092019	0.001928	45.94089	1.092019	0.001928	45.94089	1.092019	0.001928
52	V	49.26820	1.153639	0.003251	50.18221	1.168822	0.003705	51.11290	1.183888	0.004185	51.11290	1.183888	0.004185	51.11290	1.183888	0.004185	51.11290	1.183888	0.004185
53	E	46.13057	1.075239	0.001539	46.57757	1.082674	0.001742	47.03095	1.090064	0.001955	47.03095	1.090064	0.001955	47.03095	1.090064	0.001955	47.03095	1.090064	0.001955
54	V	50.41855	1.150344	0.003295	51.34728	1.165071	0.003751	52.29255	1.179654	0.004234	52.29255	1.179654	0.004234	52.29255	1.179654	0.004234	52.29255	1.179654	0.004234
55	E	47.20425	1.073678	0.001561	47.65848	1.080909	0.001765	48.11903	1.088085	0.001979	48.11903	1.088085	0.001979	48.11903	1.088085	0.001979	48.11903	1.088085	0.001979
56	V	51.56555	1.147007	0.003337	52.50856	1.161275	0.003796	53.46793	1.175373	0.004281	53.46793	1.175373	0.004281	53.46793	1.175373	0.004281	53.46793	1.175373	0.004281
57	E	48.27635	1.072097	0.001581	48.73760	1.079122	0.001787	49.20512	1.086081	0.002004	49.20512	1.086081	0.002004	49.20512	1.086081	0.002004	49.20512	1.086081	0.002004
58	V	52.70918	1.143630	0.003377	53.66600	1.157437	0.003838	54.63898	1.171049	0.004324	54.63898	1.171049	0.004324	54.63898	1.171049	0.004324	54.63898	1.171049	0.004324
59	E	49.34684	1.070495	0.001602	49.81491	1.077213	0.001809	50.28917	1.084056	0.002025	50.28917	1.084056	0.002025	50.28917	1.084056	0.002025	50.28917	1.084056	0.002025
60	V	53.84940	1.140216	0.003414	54.81956	1.153560	0.003877	55.80566	1.166685	0.004364	55.80566	1.166685	0.004364	55.80566	1.166685	0.004364	55.80566	1.166685	0.004364
61	E	50.41572	1.068874	0.001621	50.89039	1.075483	0.001830	51.37118	1.082009	0.002047	51.37118	1.082009	0.002047	51.37118	1.082009	0.002047	51.37118	1.082009	0.002047
62	V	54.98617	1.136766	0.003450	55.96920	1.149646	0.003914	56.96795	1.162284	0.004401	56.96795	1.162284	0.004401	56.96795	1.162284	0.004401	56.96795	1.162284	0.004401
63	E	51.48295	1.067236	0.001638	51.96403	1.073635	0.001848	52.45112	1.079943	0.002066	52.45112	1.079943	0.002066	52.45112	1.079943	0.002066	52.45112	1.079943	0.002066
64	V	56.11945	1.133283	0.003483	57.11490	1.145698	0.003948	58.12579	1.157849	0.004435	58.12579	1.157849	0.004435	58.12579	1.157849	0.004435	58.12579	1.157849	0.004435
65	E	52.54853	1.065580	0.001656	53.03580	1.071769	0.001866	53.52898	1.077857	0.002086	53.52898	1.077857	0.002086	53.52898	1.077857	0.002086	53.52898	1.077857	0.002086
66	V	57.24922	1.129769	0.003514	58.25662	1.141718	0.003980	59.27918	1.153382	0.004467	59.27918	1.153382	0.004467	59.27918	1.153382	0.004467	59.27918	1.153382	0.004467
67	E	53.61244	1.063907	0.001673	54.10568	1.069885	0.001884	54.60473	1.075754	0.002103	54.60473	1.075754	0.002103	54.60473	1.075754	0.002103	54.60473	1.075754	0.002103
68	V	58.37544	1.126225	0.003544	59.39433	1.137709	0.004009	60.42806	1.148886	0.004496	60.42806	1.148886	0.004496	60.42806	1.148886	0.004496	60.42806	1.148886	0.004496
69	E	54.67466	1.062219	0.001688	55.17367	1.067986	0.001899	55.67837	1.073635	0.002119	55.67837	1.073635	0.002119	55.67837	1.073635	0.002119	55.67837	1.073635	0.002119
70	V	59.49810	1.122654	0.003571	60.52800	1.133672	0.004037	61.57243	1.144364	0.004522	61.57243	1.144364	0.004522	61.57243	1.144364	0.004522	61.57243	1.144364	0.004522
71	E	55.73518	1.060517	0.001702	56.23974	1.066071	0.001915	56.74987	1.071501	0.002134	56.74987	1.071501	0.002134	56.74987	1.071501	0.002134	56.74987	1.071501	0.002134
72	V	60.61715	1.119059	0.003595	61.65761	1.129611	0.004061	62.71224	1.139819	0.004545	62.71224	1.139819	0.004545	62.71224	1.139819	0.004545	62.71224	1.139819	0.004545
73	E	56.79398	1.058801	0.001716	57.30388	1.064143	0.001928	57.81922	1.069353	0.002148	57.81922	1.069353	0.002148	57.81922	1.069353	0.002148	57.81922	1.069353	0.002148
74	V	61.73259	1.115440	0.003619	62.78314	1.125528	0.004083	63.84750	1.135253	0.004566	63.84750	1.135253	0.004566	63.84750	1.135253	0.004566	63.84750	1.135253	0.004566
75	E	57.85105	1.057071	0.001730	58.36608	1.062201	0.001942	58.88642	1.067192	0.002161	58.88642	1.067192	0.002161	58.88642	1.067192	0.002161	58.88642	1.067192	0.002161
76	V	62.84439	1.111799	0.003641	63.90456	1.121425	0.004103	64.97817	1.130669	0.004584	64.97817	1.130669	0.004584	64.97817	1.130669	0.004584	64.97817	1.130669	0.004584
77	E	58.90638	1.055330	0.001741	59.42633	1.060248	0.001953	59.95144	1.065019	0.002173	59.95144	1.065019	0.002173	59.95144	1.065019	0.002173	59.95144	1.065019	0.002173
78	V	63.95253	1.108140	0.003659	65.02186	1.117304	0.004121	66.10424	1.126070	0.004599	66.10424	1.1260							

ECCENTRICITY M		0.10		2ND DIF.		0.11		2ND DIF.		0.12		2ND DIF.	
		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.	
61	E	66.24411	1.042878	0.001801	66.79256	1.046318	0.002011	0.002011	67.34499	1.049575	0.002224	0.002224	0.002224
62	V	71.60583	1.082143	0.003742	72.72656	1.088138	0.004186	0.004186	73.85717	1.093648	0.004640	0.004640	0.004640
63	E	67.28516	1.041071	0.003807	67.83686	1.044302	0.002016	0.002016	68.39233	1.047348	0.002227	0.002227	0.002227
64	E	72.68422	1.078396	0.003747	73.81051	1.083950	0.004188	0.004188	74.94618	1.089011	0.004637	0.004637	0.004637
65	V	68.32444	1.039259	0.001812	68.87915	1.042283	0.002019	0.002019	69.43745	1.045118	0.002230	0.002230	0.002230
66	E	73.75887	1.074645	0.003751	74.89027	1.079763	0.004187	0.004187	76.03056	1.084378	0.004633	0.004633	0.004633
67	E	69.36188	1.037443	0.001816	69.91941	1.040262	0.002021	0.002021	70.48034	1.042886	0.002232	0.002232	0.002232
68	V	74.82976	1.070894	0.003751	75.96585	1.075578	0.004185	0.004185	77.11031	1.079753	0.004625	0.004625	0.004625
69	E	70.39751	1.035624	0.001819	70.95765	1.038238	0.002024	0.002024	71.52099	1.040655	0.002231	0.002231	0.002231
70	V	75.89690	1.067142	0.003752	77.03724	1.071397	0.004181	0.004181	78.18545	1.075137	0.004616	0.004616	0.004616
71	E	71.43131	1.063393	0.001821	71.99386	1.036213	0.002025	0.002025	72.55941	1.038423	0.002232	0.002232	0.002232
72	V	76.96030	1.063391	0.003751	78.10447	1.067221	0.004176	0.004176	79.25598	1.070531	0.004606	0.004606	0.004606
73	E	72.46329	1.031980	0.001823	73.02805	1.034187	0.002026	0.002026	73.59561	1.036193	0.002230	0.002230	0.002230
74	V	78.01994	1.059644	0.003747	79.16752	1.063053	0.004168	0.004168	80.32192	1.065938	0.004593	0.004593	0.004593
75	E	73.49345	1.030156	0.001824	74.06021	1.032162	0.002025	0.002025	74.62957	1.033965	0.002228	0.002228	0.002228
76	V	79.07584	1.055901	0.003743	80.22641	1.058894	0.004159	0.004159	81.38328	1.061359	0.004579	0.004579	0.004579
77	E	74.52178	1.028331	0.001825	75.09035	1.030138	0.002024	0.002024	75.66131	1.031740	0.002225	0.002225	0.002225
78	V	80.12801	1.052165	0.003736	81.28116	1.054746	0.004148	0.004148	82.44007	1.056796	0.004563	0.004563	0.004563
79	E	75.54828	1.026507	0.001824	76.11846	1.028116	0.002022	0.002022	76.69083	1.029519	0.002221	0.002221	0.002221
80	V	81.17644	1.048435	0.003730	82.33177	1.050609	0.004137	0.004137	83.49232	1.052250	0.004546	0.004546	0.004546
81	E	76.57297	1.024684	0.001823	77.14456	1.026097	0.002019	0.002019	77.71813	1.027302	0.002217	0.002217	0.002217
82	V	82.22116	1.044714	0.003721	83.37825	1.046486	0.004123	0.004123	84.54005	1.047724	0.004526	0.004526	0.004526
83	E	77.59583	1.022862	0.001822	78.16864	1.024081	0.002016	0.002016	78.74322	1.025090	0.002212	0.002212	0.002212
84	V	83.26216	1.041003	0.003711	84.42063	1.042377	0.004109	0.004109	85.58326	1.043217	0.004507	0.004507	0.004507
85	E	78.61687	1.021043	0.001819	79.19071	1.022069	0.002012	0.002012	79.76611	1.022885	0.002205	0.002205	0.002205
86	V	84.29946	1.037303	0.003700	85.45892	1.038285	0.004092	0.004092	86.62200	1.038733	0.004484	0.004484	0.004484
87	E	79.63610	1.019227	0.001816	80.21077	1.020061	0.002008	0.002008	80.78679	1.020686	0.002199	0.002199	0.002199
88	V	85.33308	1.033616	0.003687	86.49313	1.034211	0.004074	0.004074	87.65627	1.034273	0.004460	0.004460	0.004460
89	E	80.65351	1.017414	0.001813	81.22883	1.018059	0.002002	0.002002	81.80529	1.018495	0.002191	0.002191	0.002191
90	V	86.36302	1.029942	0.003674	87.52328	1.030155	0.004056	0.004056	88.68611	1.029837	0.004436	0.004436	0.004436
91	E	81.66912	1.015605	0.001809	82.24489	1.016063	0.002000	0.002000	82.82160	1.016312	0.002183	0.002183	0.002183
92	V	87.38930	1.026283	0.003659	88.54940	1.026119	0.004036	0.004036	89.71153	1.025427	0.004410	0.004410	0.004410
93	E	82.68292	1.013801	0.001804	83.25896	1.014073	0.002000	0.002000	83.83574	1.014138	0.002174	0.002174	0.002174
94	V	88.41194	1.022640	0.003643	89.57151	1.022105	0.004014	0.004014	90.73258	1.021044	0.004383	0.004383	0.004383
95	E	83.69492	1.012002	0.001799	84.27106	1.012091	0.002000	0.002000	84.84771	1.011973	0.002165	0.002165	0.002165
96	V	89.43096	1.019014	0.003626	90.58962	1.018112	0.003993	0.003993	91.74927	1.016689	0.004355	0.004355	0.004355
97	E	84.70513	1.010209	0.001793	85.28117	1.010116	0.002000	0.002000	85.85753	1.009818	0.002155	0.002155	0.002155
98	V	90.44636	1.015406	0.003608	91.60376	1.014144	0.003968	0.003968	92.76163	1.012364	0.004325	0.004325	0.004325
99	E	85.71355	1.008422	0.001787	86.28932	1.008150	0.002000	0.002000	86.86520	1.007674	0.002144	0.002144	0.002144
100	V	91.45818	1.011817	0.003589	92.61396	1.010199	0.003945	0.003945	93.76970	1.008070	0.004294	0.004294	0.004294
101	E	86.72019	1.006642	0.001780	87.29552	1.006193	0.002000	0.002000	87.87075	1.005541	0.002133	0.002133	0.002133
102	V	92.46643	1.008248	0.003569	93.62024	1.006281	0.003918	0.003918	94.77351	1.003807	0.004263	0.004263	0.004263
103	E	87.72506	1.004869	0.001773	88.25976	1.004245	0.002000	0.002000	88.87417	1.003420	0.002121	0.002121	0.002121
104	V	93.47113	1.004701	0.003547	94.62263	1.002388	0.003893	0.003893	95.77308	0.999576	0.004231	0.004231	0.004231
105	E	88.72817	1.003104	0.001765	89.30207	1.002307	0.002000	0.002000	89.87548	1.001311	0.002109	0.002109	0.002109
106	V	94.47231	1.001175	0.003526	95.62115	0.998524	0.003864	0.003864	96.76846	0.995379	0.004197	0.004197	0.004197
107	E	89.72951	1.001348	0.001756	90.30245	1.000380	0.002000	0.002000	90.87469	0.999215	0.002096	0.002096	0.002096
108	V	95.46998	0.997671	0.003504	96.61584	0.994687	0.003837	0.003837	97.75968	0.991216	0.004163	0.004163	0.004163
109	E	90.72911	0.999600	0.001748	91.30091	0.998463	0.002000	0.002000	91.87182	0.997132	0.002083	0.002083	0.002083
110	V	96.46417	0.994192	0.003479	97.60672	0.990880	0.003807	0.003807	98.74677	0.987089	0.004127	0.004127	0.004127
111	E	91.72698	0.997861	0.001739	92.29747	0.996558	0.002000	0.002000	92.86689	0.995064	0.002068	0.002068	0.002068
112	V	97.45491	0.990737	0.003455	98.59382	0.987102	0.003778	0.003778	99.72977	0.982997	0.004092	0.004092	0.004092
113	E	92.72311	0.996133	0.001728	93.29213	0.994665	0.002000	0.002000	93.85990	0.993009	0.002055	0.002055	0.002055
114	V	98.44221	0.987307	0.003430	99.57718	0.983355	0.003747	0.003747	100.70871	0.978942	0.004055	0.004055	0.004055
115	E	93.71752	0.994414	0.001719	94.28492	0.992784	0.002000	0.002000	94.85087	0.990969	0.002040	0.002040	0.002040
116	V	99.42611	0.983903	0.003404	100.55682	0.979640	0.003715	0.003715	101.68363	0.974924	0.004018	0.004018	0.004018
117	E	94.71023	0.992706	0.001708	95.27584	0.990916	0.002000	0.002000	95.83981	0.988945	0.002024	0.002024	0.002024
118	V	100.40664	0.980525	0.003378	101.53277	0.975957	0.003683	0.003683	102.65458	0.970945	0.003979	0.003979	0.003979
119	E	95.70124	0.991008	0.001698	96.26490	0.989062	0.002000	0.002000	96.82675	0.986936	0.002009	0.002009	0.002009
120	V	101.38381	0.977175	0.003350	102.50508	0.972307	0.003650	0.003650	103.62158	0.967004	0.003941	0.003941	0.003941

ECCENTRICITY
M

		0.10 1ST DIF.	2ND DIF.	0.11 1ST DIF.	2ND DIF.	0.12 1ST DIF.	2ND DIF.
121	E	125.65549	0.945521	126.09285	0.939789	126.52512	0.934028
122	V	130.18782	0.889529	131.03734	0.877844	131.87452	0.866104
123	E	126.59982	0.944325	127.03135	0.938504	127.45778	0.932659
124	V	131.07510	0.887279	131.91278	0.875445	132.73809	0.863568
125	E	127.54296	0.943147	127.96859	0.937240	128.38909	0.931314
126	V	131.96016	0.885067	132.78587	0.873088	133.59917	0.861078
127	E	128.48495	0.941988	128.90459	0.935996	129.31908	0.929990
128	V	132.84306	0.882894	133.65664	0.870772	134.45780	0.858633
129	E	129.42580	0.940848	129.83936	0.934773	130.24777	0.928690
130	V	133.72382	0.880758	134.52514	0.868499	135.31403	0.856233
131	E	130.36553	0.939727	130.77293	0.933572	131.17518	0.927412
132	V	134.60248	0.878661	135.39141	0.866267	136.16791	0.853878
133	E	131.30415	0.938626	131.70532	0.932391	132.10134	0.926157
134	V	135.47908	0.876602	136.25548	0.864077	137.01948	0.851569
135	E	132.24170	0.937543	132.63655	0.931231	133.02627	0.924925
136	V	136.35366	0.874582	137.11741	0.861929	137.86879	0.849305
137	E	133.17817	0.936480	133.56665	0.930093	133.94998	0.923716
138	V	137.22626	0.872600	137.97724	0.859823	138.71587	0.847086
139	E	134.11361	0.935437	134.49562	0.928976	134.87251	0.922530
140	V	138.09692	0.870656	138.83500	0.857759	139.56078	0.844912
141	E	135.04803	0.934413	135.42350	0.927880	135.79388	0.921367
142	V	138.96567	0.868751	139.59073	0.855736	140.40357	0.842783
143	E	135.98143	0.933409	136.35031	0.926805	136.71411	0.920227
144	V	139.83255	0.866884	140.54449	0.853755	141.24426	0.840698
145	E	136.91386	0.932424	137.27606	0.925752	137.63322	0.919110
146	V	140.69761	0.865056	141.39630	0.851816	142.08322	0.838659
147	E	137.84532	0.931459	138.20078	0.924720	138.55123	0.918016
148	V	141.56087	0.863267	142.24622	0.849918	142.59199	0.836654
149	E	138.77583	0.930514	139.12449	0.923710	139.46818	0.916945
150	V	142.42239	0.861516	143.09428	0.848063	143.75430	0.834713
151	E	139.70542	0.929588	140.04721	0.922721	140.38408	0.915898
152	V	143.28219	0.859803	143.94053	0.846248	144.58711	0.832807
153	E	140.63410	0.928619	140.96897	0.900967	141.29895	0.914874
154	V	144.14032	0.858129	144.78501	0.844475	145.41805	0.830945
155	E	141.56190	0.927798	141.88977	0.920809	142.21282	0.913872
156	V	144.99682	0.856494	145.62775	0.842744	146.24718	0.829128
157	E	142.48883	0.926932	142.80966	0.919885	143.12572	0.912895
158	V	145.85171	0.854897	146.46881	0.841054	147.07454	0.827354
159	E	143.41492	0.926087	143.72864	0.918983	144.03766	0.911940
160	V	146.70505	0.853338	147.30821	0.839406	147.99016	0.825625
161	E	144.34018	0.925262	144.64675	0.918103	144.94867	0.911009
162	V	147.55687	0.851818	148.14601	0.837798	148.72410	0.823939
163	E	145.24664	0.924457	145.56399	0.917245	145.85876	0.910101
164	V	148.40721	0.850337	148.98224	0.836232	149.54640	0.822238
165	E	146.18831	0.923672	146.48040	0.916408	146.76798	0.909216
166	V	149.25610	0.848894	149.81695	0.834707	150.36710	0.820700
167	E	147.11122	0.922908	147.39599	0.915593	147.67634	0.908354
168	V	150.10359	0.847490	150.65017	0.833224	151.18624	0.819145
169	E	148.03338	0.922164	148.31079	0.914800	148.56385	0.907516
170	V	150.94971	0.846124	151.48195	0.831781	152.00388	0.817634
171	E	148.95482	0.921440	149.22482	0.914029	149.49055	0.906701
172	V	151.79451	0.844796	152.31233	0.830379	152.82004	0.816167
173	E	149.87556	0.920737	150.13810	0.913280	150.59646	0.905910
174	V	152.63802	0.843507	153.14135	0.829019	153.63479	0.814742
175	E	150.79561	0.920054	151.05066	0.912553	151.30160	0.905142
176	V	153.48027	0.842256	153.96905	0.827699	154.444815	0.813361
177	E	151.71500	0.919391	151.96250	0.911847	152.20600	0.904337
178	V	154.32132	0.841043	154.79547	0.826420	155.26017	0.812023
179	E	152.63375	0.918749	152.87366	0.911164	153.10968	0.903675
180	V	155.16118	0.839869	155.62065	0.825181	156.07090	0.810728

ECCENTRICITY		0.10		2ND DIF.		0.11		2ND DIF.		0.12		2ND DIF.	
M		1ST DIF.				1ST DIF.				1ST DIF.			
151	E	153.55188	0.918128	0.000621	153.78417	0.910502	0.823984	0.000662	154.01265	0.902977	0.800698	0.000698	0.000698
152	V	155.99992	0.838733	0.000136	156.44464	0.823984	0.909863	0.001197	156.88037	0.809475	0.001253	0.001253	0.001253
153	E	156.83755	0.917527	0.000601	154.69403	0.909863	0.823984	0.000639	154.91496	0.902302	0.000675	0.000675	0.000675
154	V	155.38635	0.876735	0.001098	157.26746	0.823984	0.909245	0.000618	157.68864	0.808266	0.001209	0.001209	0.001209
155	E	157.67413	0.916946	0.000581	155.60328	0.909245	0.823984	0.000618	155.81660	0.901650	0.000652	0.000652	0.000652
156	V	156.30274	0.836576	0.001059	158.08917	0.823984	0.909245	0.001117	158.49574	0.807099	0.001167	0.001167	0.001167
157	E	158.50968	0.916386	0.000560	156.51193	0.909245	0.823984	0.000595	156.71763	0.901022	0.000628	0.000628	0.000628
158	V	157.21859	0.835554	0.001022	158.90981	0.823984	0.909245	0.001076	159.30171	0.805974	0.001125	0.001125	0.001125
159	E	159.04874	0.915847	0.000539	157.42000	0.909245	0.823984	0.000574	157.61804	0.900417	0.000605	0.000605	0.000605
160	V	161.01060	0.834571	0.000983	159.72941	0.823984	0.909245	0.001035	160.10660	0.804893	0.001081	0.001081	0.001081
161	E	163.50370	0.915328	0.000519	158.32753	0.909245	0.823984	0.000551	158.51788	0.899836	0.000581	0.000581	0.000581
162	V	160.17788	0.833626	0.000945	160.54801	0.823984	0.909245	0.000995	160.91046	0.803853	0.001040	0.001040	0.001040
163	E	165.04874	0.914830	0.000498	159.23452	0.909245	0.823984	0.000530	159.41716	0.899277	0.000559	0.000559	0.000559
164	V	167.67347	0.832719	0.000907	161.36566	0.823984	0.909245	0.000955	161.71331	0.802856	0.000997	0.000997	0.000997
165	E	169.04035	0.914353	0.000477	160.14101	0.909245	0.823984	0.000507	160.31590	0.898742	0.000535	0.000535	0.000535
166	V	165.16192	0.830226	0.000793	163.81328	0.823984	0.909245	0.000835	164.11632	0.800117	0.000871	0.000871	0.000871
167	E	167.70350	0.913044	0.000416	162.85765	0.909245	0.823984	0.000441	163.00915	0.897277	0.000465	0.000465	0.000465
168	V	164.33317	0.829471	0.000755	164.62751	0.823984	0.909245	0.000794	164.91561	0.799288	0.000829	0.000829	0.000829
169	E	165.61615	0.912650	0.000394	163.76233	0.909245	0.823984	0.000419	163.90598	0.896835	0.000442	0.000442	0.000442
170	V	167.64426	0.828754	0.000717	165.44098	0.823984	0.909245	0.000754	165.71411	0.798502	0.000786	0.000786	0.000786
171	E	168.47053	0.912276	0.000374	164.66661	0.904281	0.823984	0.000398	164.80240	0.896417	0.000418	0.000418	0.000418
172	V	165.99000	0.828075	0.000679	166.25375	0.812763	0.823984	0.000714	166.51187	0.797756	0.000746	0.000746	0.000746
173	E	167.40335	0.911922	0.000354	165.57052	0.903906	0.823984	0.000375	165.86982	0.896022	0.000395	0.000395	0.000395
174	V	166.81743	0.827434	0.000641	167.06584	0.812088	0.823984	0.000675	167.30892	0.797053	0.000703	0.000703	0.000703
175	E	168.35194	0.911590	0.000332	166.47407	0.903553	0.823984	0.000353	166.59407	0.895650	0.000372	0.000372	0.000372
176	V	167.64426	0.826831	0.000603	167.87729	0.811454	0.823984	0.000634	168.10531	0.796392	0.000661	0.000661	0.000661
177	E	169.29626	0.911278	0.000312	167.31729	0.903222	0.823984	0.000331	167.48937	0.895301	0.000349	0.000349	0.000349
178	V	168.47053	0.826265	0.000566	168.68815	0.810859	0.823984	0.000595	168.90108	0.795772	0.000620	0.000620	0.000620
179	E	168.17420	0.910987	0.000291	168.28020	0.902913	0.823984	0.000309	168.38435	0.894976	0.000325	0.000325	0.000325
180	V	169.08492	0.825737	0.000528	169.49845	0.810305	0.823984	0.000554	169.69628	0.795193	0.000579	0.000579	0.000579
181	E	170.12151	0.910717	0.000270	169.18283	0.902626	0.823984	0.000287	169.27902	0.894673	0.000303	0.000303	0.000303
182	V	170.94631	0.824248	0.000489	170.30824	0.809790	0.823984	0.000515	170.49093	0.794656	0.000537	0.000537	0.000537
183	E	171.77069	0.910467	0.000250	170.08519	0.902361	0.823984	0.000265	170.17342	0.894395	0.000278	0.000278	0.000278
184	V	172.59469	0.824795	0.000453	171.11756	0.809315	0.823984	0.000475	171.28509	0.794161	0.000495	0.000495	0.000495
185	E	173.40335	0.910238	0.000229	170.98731	0.902119	0.823984	0.000242	171.06756	0.894139	0.000256	0.000256	0.000256
186	V	174.24172	0.823881	0.000414	171.92644	0.808879	0.823984	0.000436	172.07880	0.793707	0.000454	0.000454	0.000454
187	E	175.06482	0.910030	0.000208	171.88921	0.901898	0.823984	0.000221	171.96146	0.893907	0.000232	0.000232	0.000232
188	V	175.88770	0.824004	0.000377	172.73492	0.808484	0.823984	0.000395	172.87210	0.793295	0.000412	0.000412	0.000412
189	E	176.71038	0.909843	0.000187	172.79091	0.901699	0.823984	0.000199	172.85516	0.893697	0.000210	0.000210	0.000210
190	V	177.53292	0.823665	0.000339	173.54305	0.808127	0.823984	0.000357	173.66502	0.792924	0.000371	0.000371	0.000371
191	E	178.35534	0.909677	0.000166	173.69243	0.901523	0.823984	0.000176	173.74867	0.893512	0.000185	0.000185	0.000185
192	V	179.17769	0.823364	0.000301	174.35086	0.807811	0.823984	0.000316	174.45761	0.792594	0.000330	0.000330	0.000330
193	E	180.00000	0.909531	0.000146	174.59380	0.901368	0.823984	0.000155	174.64202	0.893349	0.000163	0.000163	0.000163
194	V	180.00000	0.823100	0.000264	175.15839	0.807534	0.823984	0.000277	175.24992	0.792305	0.000289	0.000289	0.000289
195	E	180.00000	0.823875	0.000125	175.49504	0.901236	0.823984	0.000132	175.53523	0.893209	0.000140	0.000140	0.000140
196	V	180.00000	0.823875	0.000225	175.96569	0.807297	0.823984	0.000237	176.04198	0.792058	0.000247	0.000247	0.000247
197	E	180.00000	0.823875	0.000104	176.36616	0.901125	0.823984	0.000111	176.42832	0.893093	0.000116	0.000116	0.000116
198	V	180.00000	0.823875	0.000189	176.71279	0.807099	0.823984	0.000198	176.83383	0.791852	0.000206	0.000206	0.000206
199	E	180.00000	0.823875	0.000083	177.29720	0.901037	0.823984	0.000088	177.32132	0.893000	0.000093	0.000093	0.000093
200	V	180.00000	0.823875	0.000150	177.57973	0.806941	0.823984	0.000158	177.62551	0.791687	0.000165	0.000165	0.000165
201	E	180.00000	0.823875	0.000062	178.19817	0.900971	0.823984	0.000066	178.21425	0.892931	0.000069	0.000069	0.000069
202	V	180.00000	0.823875	0.000113	178.38655	0.806822	0.823984	0.000119	178.41708	0.791564	0.000123	0.000123	0.000123
203	E	180.00000	0.823875	0.000042	179.09909	0.900927	0.823984	0.000047	179.10714	0.892884	0.000047	0.000047	0.000047
204	V	180.00000	0.823875	0.000075	179.19330	0.806743	0.823984	0.000079	179.20856	0.791481	0.000083	0.000083	0.000083
205	E	180.00000	0.823875	0.000021	180.00000	0.900905	0.823984	0.000022	180.00000	0.892861	0.000023	0.000023	0.000023
206	V	180.00000	0.823875	0.000038	180.00000	0.806704	0.823984	0.000039	180.00000	0.791440	0.000041	0.000041	0.000041

ECCENTRICITY M		0.13		2ND DIF.		0.14		2ND DIF.		0.15	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
1	E	1.14941				1.16278				1.17646	
2	V	1.30994				1.33874				1.36839	
3	E	2.29876				2.32548				2.35282	
4	V	2.61972				2.67729				2.73658	
5	E	3.44796				3.48802				3.52902	
6	V	3.92919				4.01549				4.10435	
7	E	4.59696				4.65033				4.70495	
8	V	5.23819				5.35315				5.47152	
9	E	5.74569				5.81233				5.88053	
10	V	6.54656				6.69010				6.83788	
11	E	7.89407				8.07394				8.25323	
12	V	8.04204				8.13509				8.23030	
13	E	9.16079				9.36113				9.56736	
14	V	9.18952				9.29570				9.40432	
15	E	10.46634				10.69487				10.93009	
16	V	11.77065				12.02720				12.29121	
17	E	11.48279				11.61498				11.75020	
18	V	13.07356				13.35793				13.65053	
19	E	12.62844				12.77352				12.92189	
20	V	14.37693				14.68691				15.00786	
21	E	13.77334				13.93121				14.09265	
22	V	15.91743				16.01396				16.36302	
23	E	16.97245				17.33893				17.71581	
24	V	16.06065				16.24379				16.43101	
25	E	18.26831				18.66164				19.06605	
26	V	17.20293				17.98195				17.59846	
27	E	19.56204				19.98195				20.41357	
28	V	18.34421				18.55215				18.76465	
29	E	20.85352				21.29968				21.75819	
30	V	19.48444				20.61469				20.41357	
31	E	22.14259				22.81549				23.09973	
32	V	23.42914				23.91032				24.43803	
33	E	20.62354				20.85575				21.09296	
34	V	23.42914				23.91032				24.43803	
35	E	21.76146				22.00560				22.25493	
36	V	24.71302				25.23596				25.77293	
37	E	22.89815				23.15406				23.41535	
38	V	25.99411				26.54192				27.10427	
39	E	24.03354				24.30106				24.57414	
40	V	27.27228				27.84459				28.43188	
41	E	25.16758				25.46655				25.73125	
42	V	28.54742				29.14381				29.75563	
43	E	26.30022				26.59047				26.88660	
44	V	29.81940				30.43947				31.07536	
45	E	27.43140				27.73275				28.04012	
46	V	31.08811				31.73142				32.39093	
47	E	28.56107				28.87334				29.19177	
48	V	32.35343				33.01956				33.70220	
49	E	29.68918				30.01218				30.34146	
50	V	33.61526				34.30375				35.00905	
51	E	30.81568				31.14922				31.48916	
52	V	34.87350				35.58388				36.31135	
53	E	31.94052				32.28441				32.63479	
54	V	36.12803				36.85985				37.60897	
55	E	33.06365				33.41770				33.77830	
56	V	37.37876				38.13154				38.20180	
57	E	34.18504				34.54903				34.91965	
58	V	38.62560				39.39884				40.18973	

ECCENTRICITY

			1st ¹³ DIF.	2ND DIF.	1st ¹⁴ DIF.	2ND DIF.	1st ¹⁵ DIF.	2ND DIF.
31	E	35.30464	1.119594	0.001793	35.67836	1.129331	0.002001	1.139123
		39.86845	1.242854	0.003985	40.66167	1.252828	0.004479	1.282921
32	E	36.42239	1.117758	0.001836	36.80565	1.127284	0.002047	1.136852
		41.10723	1.238782	0.004072	41.91993	1.258254	0.004574	1.277811
33	E	37.53828	1.115882	0.001876	37.93084	1.125193	0.002091	1.134534
		42.34186	1.234626	0.004156	43.17352	1.253590	0.004664	1.272605
34	E	38.65224	1.113966	0.001916	39.05390	1.123059	0.002134	1.132170
		43.57225	1.230390	0.004236	44.42236	1.248841	0.004749	1.267308
35	E	39.76425	1.112012	0.001954	40.17478	1.120885	0.002174	1.129763
		44.79833	1.226078	0.004312	45.66637	1.244010	0.004831	1.261925
36	E	40.81428	1.110022	0.001990	41.29345	1.118672	0.002213	1.127315
		46.02002	1.221693	0.004385	46.90547	1.239102	0.004908	1.256462
37	E	41.98227	1.107997	0.002025	42.40988	1.116421	0.002251	1.124828
		47.23726	1.217240	0.004453	48.13959	1.234122	0.004980	1.250923
38	E	43.08821	1.105938	0.002059	43.52401	1.114135	0.002286	1.122303
		48.44998	1.212721	0.004519	49.36866	1.229073	0.005049	1.245313
39	E	44.19206	1.103848	0.002090	44.63583	1.111816	0.002319	1.119742
		49.65812	1.208140	0.004581	50.59262	1.223960	0.005113	1.239638
40	E	45.29379	1.101727	0.002121	45.74529	1.109464	0.002352	1.117149
		50.86163	1.203502	0.004638	51.81141	1.218788	0.005172	1.233901
41	E	46.39336	1.099577	0.002150	46.85237	1.107081	0.002383	1.114523
		52.06043	1.198809	0.004693	53.02497	1.213559	0.005229	1.228109
42	E	47.49076	1.097399	0.002178	47.95704	1.104671	0.002410	1.111869
		53.25450	1.194066	0.004743	54.823325	1.208279	0.005280	1.222265
43	E	48.58596	1.095195	0.002204	49.05928	1.102234	0.002438	1.109186
		54.44377	1.189275	0.004791	55.43620	1.202952	0.005327	1.216375
44	E	49.67893	1.092967	0.002228	50.15904	1.099769	0.002464	1.106478
		55.62822	1.184440	0.004835	56.63378	1.197581	0.005371	1.210443
45	E	50.76964	1.090716	0.002251	51.25633	1.097282	0.002487	1.103746
		56.80778	1.179565	0.004875	57.82595	1.192171	0.005410	1.204473
46	E	51.85808	1.088442	0.002274	52.35110	1.094773	0.002509	1.100932
		57.96243	1.174653	0.004912	59.01268	1.186723	0.005446	1.198469
47	E	52.94423	1.086149	0.002293	53.44334	1.092244	0.002529	1.098218
		59.15214	1.169708	0.004945	60.19393	1.181247	0.005478	1.192437
48	E	54.02807	1.083836	0.002313	54.53304	1.089695	0.002549	1.095425
		60.31687	1.164732	0.004976	61.36967	1.175741	0.005506	1.186380
49	E	55.10957	1.081506	0.002330	55.62017	1.087129	0.002566	1.092616
		61.47660	1.159729	0.005003	62.53988	1.170211	0.005530	1.180303
50	E	56.18873	1.079159	0.002347	56.70471	1.084547	0.002582	1.089791
		62.63131	1.154702	0.005027	63.70454	1.164660	0.005551	1.174208
51	E	57.26553	1.076798	0.002361	57.78667	1.081951	0.002596	1.086953
		63.78096	1.149654	0.005048	64.86363	1.159091	0.005569	1.168101
52	E	58.33995	1.074423	0.002375	58.86601	1.079343	0.002608	1.084104
		64.92555	1.144589	0.005065	66.01714	1.153508	0.005583	1.161985
53	E	59.41199	1.072035	0.002388	59.94273	1.076752	0.002621	1.081244
		66.06506	1.139508	0.005081	67.16505	1.147914	0.005594	1.155863
54	E	60.48163	1.069637	0.002398	61.01682	1.074092	0.002630	1.078376
		67.19947	1.134415	0.005093	68.30736	1.142313	0.005601	1.149739
55	E	61.54885	1.067229	0.002408	62.08828	1.0711453	0.002639	1.075501
		68.32878	1.129313	0.005102	69.44407	1.136707	0.005606	1.143616
56	E	62.61367	1.064813	0.002416	63.15708	1.068807	0.002646	1.072620
		69.45299	1.124205	0.005108	70.57517	1.131100	0.005607	1.137498
57	E	63.67606	1.062389	0.002424	64.22324	1.066156	0.002651	1.069736
		70.57208	1.119092	0.005113	71.70066	1.125494	0.005606	1.131388
58	E	64.73601	1.059599	0.002430	65.28674	1.063499	0.002657	1.066848
		71.68606	1.113979	0.005113	72.82056	1.119892	0.005602	1.125289
59	E	65.79354	1.057524	0.002435	66.34758	1.060839	0.002660	1.063960
		72.79493	1.108866	0.005113	73.93485	1.114297	0.005595	1.119203
60	E	66.84862	1.055085	0.002439	67.40576	1.058177	0.002662	1.061071
		73.89868	1.103757	0.005109	75.04357	1.108712	0.005585	1.113134

ECCENTRICITY
M

			0.13 1ST DIF.	2ND DIF.	0.14 1ST DIF.	2ND DIF.	0.15 1ST DIF.	2ND DIF.
61	E	67.90127	1.052643	0.002442	68.46127	1.055515	0.002662	69.02487
	V	74.99734	1.098654	0.005103	76.14670	1.103139	0.005573	77.30490
62	E	68.95146	1.050199	0.002444	69.51412	1.052852	0.002663	70.08017
	V	76.09090	1.093560	0.005094	77.24429	1.097581	0.005558	78.40286
63	E	69.99922	1.047755	0.002444	70.56431	1.050191	0.002661	71.13259
	V	77.17937	1.088476	0.005084	78.33633	1.092039	0.005542	79.50101
64	E	71.04453	1.045312	0.002443	71.61185	1.047532	0.002659	72.18213
	V	78.26278	1.083404	0.005072	79.42284	1.086517	0.005522	80.59009
65	E	72.08740	1.042869	0.002443	72.65672	1.044877	0.002655	73.22880
	V	79.34113	1.078348	0.005056	80.50386	1.081016	0.005501	81.67322
66	E	73.12783	1.040429	0.002440	73.69895	1.042227	0.002650	74.72641
	V	80.41443	1.073308	0.005040	81.57940	1.075539	0.005477	82.75044
67	E	74.16582	1.037993	0.002436	74.73853	1.039582	0.002645	75.31357
	V	81.48272	1.068286	0.005022	82.64948	1.070087	0.005452	83.82177
68	E	75.20138	1.035560	0.002433	75.77547	1.036943	0.002639	76.35168
	V	82.54600	1.063285	0.005001	83.71415	1.064663	0.005424	84.88125
69	E	76.23452	1.033133	0.002427	76.80979	1.034313	0.002630	77.38696
	V	83.60431	1.058306	0.004979	84.77341	1.059267	0.005396	85.94693
70	E	77.26523	1.030711	0.002422	77.84148	1.031690	0.002623	78.41941
	V	84.65766	1.053350	0.004956	85.82732	1.053903	0.005364	87.00083
71	E	78.29352	1.028296	0.002415	78.87055	1.029077	0.002613	79.44906
	V	85.70608	1.048421	0.004929	86.87569	1.048571	0.005332	88.04900
72	E	79.31941	1.025889	0.002407	79.89703	1.026475	0.002602	80.47590
	V	86.74960	1.043518	0.004903	87.91916	1.043274	0.005297	89.09148
73	E	80.34290	1.023490	0.002399	80.92091	1.023883	0.002592	81.49996
	V	87.78824	1.038643	0.004875	88.95718	1.038012	0.005262	90.12832
74	E	81.36400	1.021101	0.002389	81.94221	1.021303	0.002580	82.52126
	V	88.82204	1.053799	0.004844	89.98966	1.032787	0.005225	91.15956
75	E	82.38272	1.018721	0.002380	82.96095	1.018735	0.002568	83.53979
	V	89.85103	1.028986	0.004813	91.01756	1.027601	0.005186	92.18524
76	E	83.39907	1.016352	0.002369	83.97713	1.016181	0.002554	84.55560
	V	90.87523	1.024205	0.004781	92.04002	1.022455	0.005146	93.20542
77	E	84.41307	1.013994	0.002358	84.99077	1.013641	0.002540	85.56868
	V	91.89469	1.019458	0.004747	93.05737	1.017349	0.005106	94.22014
78	E	85.42472	1.011648	0.002346	86.00189	1.011115	0.002526	86.57905
	V	92.90944	1.014746	0.004712	94.06965	1.012286	0.005063	95.22945
79	E	86.43403	1.009314	0.002334	87.01049	1.008605	0.002510	87.58674
	V	93.91951	1.010070	0.004676	95.07692	1.007266	0.005020	96.23341
80	E	87.44102	1.006994	0.002320	88.01660	1.006111	0.002494	88.59177
	V	94.92494	1.005432	0.004638	96.07921	1.002290	0.004976	97.23206
81	E	88.44571	1.004687	0.002307	89.02024	1.003633	0.002478	89.59415
	V	95.92577	1.000831	0.004601	97.07657	0.9997359	0.004931	98.22546
82	E	89.44811	1.002395	0.002292	90.02141	1.001172	0.002461	90.59390
	V	96.92204	0.996269	0.004562	98.06904	0.992475	0.004884	99.21366
83	E	90.44822	1.000118	0.002277	91.02014	0.998729	0.002443	91.59105
	V	97.91379	0.991748	0.004521	99.05668	0.987637	0.004838	100.19671
84	E	91.44608	0.997856	0.002262	92.01644	0.996304	0.002425	92.58562
	V	98.90105	0.987267	0.004481	100.03953	0.982847	0.004790	101.17468
85	E	92.44169	0.995610	0.002246	93.01034	0.993898	0.002406	93.57762
	V	99.88388	0.982827	0.004440	101.01763	0.978105	0.002472	102.14761
86	E	93.43507	0.993380	0.002230	94.00185	0.9991511	0.002387	94.56708
	V	100.86231	0.978431	0.004396	101.99104	0.973413	0.004692	103.11557
87	E	94.42624	0.991167	0.002213	94.99099	0.989144	0.002367	95.55402
	V	101.83639	0.974077	0.004354	102.95982	0.968770	0.004643	104.07860
88	E	95.41521	0.988972	0.002195	95.97779	0.986796	0.002348	96.53847
	V	102.80615	0.969766	0.004311	103.92399	0.964177	0.004593	105.03677
89	E	96.40200	0.986794	0.002178	96.96226	0.984470	0.002326	97.52044
	V	103.77165	0.965500	0.004266	104.88363	0.959636	0.004541	105.99013
90	E	97.38664	0.984635	0.002159	97.94442	0.982164	0.002306	98.49997
	V	104.73293	0.961279	0.004221	105.83877	0.955145	0.004491	106.93875

ECCENTRICITY

		19 ¹³ DIF.	2ND DIF.	19 ¹⁴ DIF.	2ND DIF.	19 ¹⁵ DIF.	2ND DIF.
91	E	98.36913	0.982494	98.92430	0.979879	99.47707	0.977101
	V	105.69004	0.957103	106.78948	0.950707	107.488268	0.943926
92	E	99.34950	0.980372	99.90192	0.977616	100.45177	0.974701
	V	106.64301	0.952974	107.73580	0.946320	108.82197	0.939295
93	E	100.32777	0.978269	100.87729	0.95374	101.42410	0.972326
	V	107.59190	0.948890	108.67779	0.941986	109.75669	0.934722
94	E	101.30396	0.976186	101.85045	0.973155	102.39407	0.969976
	V	108.53675	0.944853	109.61549	0.937705	110.68690	0.930209
95	E	102.27808	0.974123	102.82141	0.970959	103.36172	0.967651
	V	109.47762	0.940864	110.54897	0.933477	111.61265	0.925755
96	E	103.25016	0.972080	103.79019	0.968785	104.32707	0.965351
	V	110.41454	0.936922	111.47827	0.929302	112.53401	0.921360
97	E	104.22022	0.970058	104.75683	0.966635	105.29015	0.963077
	V	111.34757	0.933027	112.40345	0.925181	113.45104	0.917024
98	E	105.18828	0.968057	105.72134	0.964508	106.25098	0.960829
	V	112.27675	0.929181	113.32457	0.921114	114.36379	0.912749
99	E	106.15435	0.966076	106.68374	0.962404	114.72095	0.958608
	V	113.20213	0.925384	114.24167	0.917101	115.27232	0.908533
100	E	107.11847	0.964117	107.64406	0.960325	116.16600	0.956412
	V	114.12377	0.921635	115.15481	0.913142	116.17670	0.904376
101	E	108.08065	0.962180	108.60233	0.958269	109.12024	0.954244
	V	115.04170	0.917934	116.06404	0.909237	117.07698	0.900279
102	E	109.04092	0.960264	109.55857	0.956236	110.47234	0.952102
	V	115.95598	0.914283	116.96943	0.905366	117.97332	0.896242
103	E	109.99929	0.958371	110.51280	0.954231	111.02233	0.949866
	V	116.86666	0.910681	117.87102	0.901590	118.86548	0.892264
104	E	110.93579	0.956500	111.46505	0.952249	111.97023	0.947898
	V	117.77379	0.907128	118.76887	0.897848	119.75383	0.888346
105	E	111.91044	0.954651	112.41534	0.950291	112.91607	0.945837
	V	118.67742	0.903625	119.66303	0.894160	120.63831	0.884487
106	E	112.86326	0.952825	113.36370	0.948359	113.85987	0.943803
	V	119.57759	0.900171	120.55356	0.890527	121.51900	0.880687
107	E	113.81428	0.951021	114.31015	0.946451	114.80167	0.941797
	V	120.47435	0.896767	121.44050	0.886949	122.39595	0.876947
108	E	114.76352	0.949241	115.25472	0.944569	115.74149	0.939818
	V	121.36777	0.893412	122.32393	0.883424	123.26921	0.873265
109	E	115.71101	0.947484	116.19743	0.942712	116.67935	0.937867
	V	122.25787	0.890107	123.20388	0.879954	124.13886	0.869643
110	E	116.65676	0.945750	117.13832	0.940881	117.61530	0.935943
	V	123.14473	0.886852	124.08042	0.876539	125.00493	0.866078
111	E	117.60080	0.944039	118.07739	0.939075	118.54934	0.934047
	V	124.02837	0.883647	124.95360	0.873177	125.86751	0.862573
112	E	118.54315	0.942352	119.01469	0.937295	119.48152	0.932178
	V	124.90887	0.880491	125.82347	0.869869	126.72663	0.859126
113	E	119.48384	0.940688	119.95023	0.935540	120.41166	0.930338
	V	125.78625	0.877386	126.69008	0.866616	127.58237	0.855736
114	E	120.42288	0.939049	120.88404	0.933811	121.34038	0.928525
	V	126.66058	0.874329	127.55350	0.863416	128.43477	0.852405
115	E	121.36032	0.937433	121.81614	0.932109	122.26712	0.926740
	V	127.53190	0.871323	128.41377	0.860270	129.28393	0.849131
116	E	122.29616	0.935841	122.74658	0.920432	123.19211	0.924983
	V	128.40027	0.868366	129.27095	0.857177	130.12982	0.845914
117	E	123.23043	0.934273	123.67536	0.928781	124.11536	0.923255
	V	129.26573	0.865459	130.12509	0.854138	130.97257	0.842755
118	E	124.16316	0.932729	124.60251	0.927156	125.03692	0.921553
	V	130.12833	0.862601	130.57624	0.851152	131.81223	0.839853
119	E	125.09437	0.931209	125.52807	0.925557	125.95680	0.919880
	V	130.98812	0.859792	131.82446	0.848219	132.64883	0.836607
120	E	126.02408	0.929714	126.45205	0.923984	126.87503	0.918235
	V	131.84515	0.857033	132.66980	0.845339	133.48245	0.833617

ECCENTRICITY		0.13		0.14		0.15	
M		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
121	E	126.95232	0.928243	127.37449	0.922438	127.79165	0.916618
122	V	132.69948	0.854323	133.51231	0.842512	134.31313	0.830683
123	V	127.87912	0.926796	128.39541	0.920918	128.70688	0.915029
124	V	133.55114	0.851662	134.35201	0.839737	135.14039	0.827806
125	E	128.80449	0.925373	129.21483	0.919423	129.62015	0.913468
126	V	134.40019	0.82613	135.18906	0.837014	135.96592	0.824983
127	E	129.72847	0.923976	130.13279	0.917956	130.53208	0.911935
128	V	135.24667	0.864866	136.02340	0.834344	136.78814	0.822216
129	E	130.65107	0.922602	131.04930	0.916514	131.44251	0.910429
130	V	136.09064	0.843972	136.85513	0.831725	137.60764	0.819504
131	E	131.57232	0.921253	131.96440	0.915099	132.35146	0.908952
132	V	136.93215	0.864506	137.68429	0.829159	138.42449	0.816847
133	E	132.49225	0.919929	132.87811	0.913710	133.25896	0.907503
134	V	137.71224	0.839088	138.51093	0.826643	139.23873	0.814243
135	E	133.41088	0.918629	133.79046	0.912347	134.16505	0.906081
136	V	138.60796	0.836719	139.33511	0.824179	140.05043	0.811634
137	E	134.32824	0.917354	134.70147	0.911010	135.06973	0.904687
138	V	139.44235	0.834398	140.15688	0.821766	140.85963	0.809199
139	E	135.24434	0.916104	135.61117	0.909700	135.97305	0.903321
140	V	140.27448	0.832124	140.57628	0.819404	141.66638	0.806758
141	E	136.15922	0.914878	136.51958	0.908416	136.87504	0.901983
142	V	141.10438	0.829899	141.79337	0.821092	142.47075	0.804369
143	E	137.07290	0.913677	137.42674	0.907158	137.77571	0.900673
144	V	141.93210	0.827722	142.60820	0.814831	143.27279	0.802034
145	E	137.98540	0.912501	138.33267	0.905927	138.67510	0.899330
146	V	142.75769	0.825591	143.42082	0.821620	144.07234	0.799751
147	E	138.89675	0.911349	139.23739	0.904721	139.57324	0.898135
148	V	143.58120	0.823509	144.23128	0.810459	144.87006	0.802231
149	E	139.80697	0.910222	140.14093	0.903542	140.47014	0.896908
150	V	144.40267	0.821473	145.03963	0.808348	145.66540	0.795342
151	E	140.71609	0.909120	141.04332	0.902389	141.36585	0.895708
152	V	145.22216	0.819485	145.84592	0.806287	146.45861	0.793215
153	E	141.62413	0.908042	141.94458	0.901262	142.26039	0.894536
154	V	146.03970	0.817544	146.65019	0.804274	147.24976	0.791141
155	E	142.53112	0.906989	142.84475	0.900162	143.15378	0.893391
156	V	146.85535	0.815649	147.45250	0.802311	148.03887	0.789117
157	E	143.43708	0.905961	143.74383	0.899087	144.04605	0.892273
158	V	147.66915	0.813801	148.25290	0.800397	148.82602	0.787144
159	E	144.34204	0.904958	144.64187	0.898039	144.93723	0.891183
160	V	148.48115	0.811999	149.05143	0.798531	149.61124	0.785222
161	E	145.24602	0.903979	145.53889	0.897017	145.82736	0.890121
162	V	149.29140	0.810244	149.84814	0.796714	150.39459	0.783351
163	E	146.14904	0.903025	146.43491	0.896020	146.71644	0.889086
164	V	150.09993	0.808535	150.64309	0.794946	151.17612	0.781530
165	E	147.05114	0.902096	147.32996	0.895050	147.60452	0.888078
166	V	150.90680	0.806872	151.43632	0.793225	151.95588	0.779759
167	E	147.95233	0.901192	148.22406	0.894106	148.49162	0.887097
168	V	151.71206	0.805255	152.22787	0.791552	152.73392	0.778038
169	E	148.85264	0.900312	149.11725	0.893187	149.37776	0.886143
170	V	152.51574	0.803683	153.01779	0.789927	153.51028	0.776366
171	E	149.75210	0.899457	150.00955	0.892295	150.26298	0.885217
172	V	153.31790	0.802157	153.80614	0.788349	154.28503	0.774743
173	E	150.65073	0.898626	150.90097	0.891429	151.14729	0.884317
174	V	154.11857	0.800676	154.59296	0.786819	155.05820	0.773170
175	E	151.54855	0.897820	151.79156	0.890588	152.03074	0.883445
176	V	154.91781	0.809241	155.37830	0.785336	155.82984	0.771645
177	E	152.44559	0.897039	152.68134	0.889773	152.91334	0.882600
178	V	155.71566	0.797850	156.16220	0.783900	156.60001	0.770169
179	E	153.34187	0.896282	153.57032	0.888985	153.79512	0.881781
180	V	156.51217	0.796505	156.94471	0.782510	157.36875	0.768741

ECCENTRICITY		$18\frac{1}{2}^{\circ}$ DIF.	2ND DIF.	$18\frac{1}{2}^{\circ}$ DIF.	2ND DIF.	$18\frac{1}{2}^{\circ}$ DIF.	2ND DIF.
151	E	154.23742	0.895550	154.45854	0.888221	154.67611	0.880990
152	V	157.30737	0.795204	157.2588	0.781168	158.13611	0.767362
153	E	155.13226	0.894843	155.34603	0.887484	155.55633	0.880225
154	V	158.10132	0.793948	158.50575	0.779871	158.90214	0.766030
155	E	156.02642	0.894160	156.23280	0.886773	156.43582	0.879487
156	V	158.89406	0.792737	159.28437	0.778621	159.66889	0.764746
157	E	156.91992	0.893501	157.11889	0.886087	157.31460	0.878776
158	V	159.68563	0.791570	160.06178	0.777417	160.43040	0.763510
159	E	157.81279	0.892868	158.00431	0.885426	158.19269	0.878092
160	V	160.47608	0.790448	160.83805	0.776259	158.19272	0.767321
161	E	158.70505	0.892258	158.89910	0.884792	159.07012	0.877434
162	V	161.26545	0.789369	161.61319	0.775147	161.95390	0.761180
163	E	159.59672	0.891674	159.77329	0.884183	159.94639	0.878683
164	V	162.05378	0.788335	162.38727	0.774080	162.71399	0.760085
165	E	160.48783	0.891113	160.65689	0.883599	160.92312	0.876198
166	V	162.84113	0.787345	163.16033	0.773059	163.47302	0.759038
167	E	161.37841	0.890578	161.53993	0.883042	161.69874	0.875620
168	V	163.62752	0.786396	163.93244	0.772083	164.23106	0.758037
169	E	162.26848	0.890066	162.42244	0.882509	162.57381	0.875069
170	V	164.41302	0.785495	164.70357	0.771153	164.98814	0.757082
171	E	163.15806	0.889580	163.30444	0.882003	163.44836	0.874544
172	V	165.19765	0.784636	165.47383	0.770267	165.74432	0.756174
173	E	164.04717	0.889117	164.18596	0.881521	164.32240	0.873128
174	V	165.98148	0.783821	166.24326	0.769427	166.49963	0.755313
175	E	164.93585	0.888679	165.06703	0.881066	165.19598	0.873574
176	V	166.76452	0.783049	167.01189	0.768632	167.25413	0.754497
177	E	165.82412	0.888266	165.94766	0.880635	166.06911	0.873128
178	V	167.54684	0.782320	167.77977	0.767881	168.00785	0.753728
179	E	166.71200	0.887876	166.82789	0.880230	166.94181	0.872709
180	V	168.32848	0.781635	168.54695	0.767175	168.76086	0.753004
181	E	167.59951	0.887512	167.70774	0.779851	167.81413	0.872316
182	V	169.10947	0.780993	169.31346	0.766514	169.51318	0.752326
183	E	168.48668	0.887171	168.58724	0.879497	168.68608	0.871949
184	V	169.88987	0.780394	170.07936	0.765897	170.26488	0.751694
185	E	169.37353	0.886855	169.46641	0.879168	169.55769	0.871609
186	V	170.66970	0.779838	170.84468	0.765324	171.01598	0.751107
187	E	170.26010	0.886563	170.34527	0.788865	170.42898	0.871295
188	V	171.44903	0.779325	171.60948	0.764796	171.76655	0.750566
189	E	171.14639	0.886296	171.22386	0.778587	171.29999	0.871007
190	V	172.22788	0.778855	172.37379	0.764312	172.51662	0.750070
191	E	172.03245	0.886053	172.10219	0.788334	172.17074	0.870746
192	V	173.00631	0.778428	173.13766	0.763873	173.26624	0.749620
193	E	172.91828	0.885834	172.98030	0.7878106	173.04125	0.870510
194	V	173.78435	0.778043	173.90114	0.763477	174.01546	0.749215
195	E	173.80392	0.885640	173.85821	0.877904	173.91155	0.870301
196	V	174.56206	0.777702	174.66426	0.763126	174.76431	0.748855
197	E	174.68939	0.885470	174.73593	0.877728	174.81867	0.870118
198	V	175.33946	0.777403	175.42708	0.762818	175.51285	0.748540
199	E	175.57471	0.885324	175.61351	0.877576	175.65163	0.859962
200	V	176.11661	0.777148	176.18964	0.762555	176.26112	0.748270
201	E	176.45992	0.885203	176.49096	0.877450	176.52146	0.869831
202	V	176.89354	0.776934	176.95197	0.762335	177.00917	0.748075
203	E	177.34502	0.885106	177.36893	0.877349	177.39119	0.869726
204	V	177.67031	0.776764	177.71413	0.762160	177.75703	0.747866
205	E	178.23005	0.885033	178.24558	0.877273	178.26083	0.869648
206	V	178.44694	0.776636	178.47616	0.762028	178.50476	0.747731
207	E	179.11504	0.884984	179.12280	0.877222	179.13043	0.869596
208	V	179.22349	0.776551	179.23810	0.761941	179.25240	0.747641
209	E	180.00000	0.884960	180.00000	0.877197	180.00000	0.869570
210	V	180.00000	0.776508	180.00000	0.761897	180.00000	0.747596

ECCENTRICITY M		0.16		2ND DIF.		0.17		2ND DIF.		0.18		2ND DIF.	
		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.	
1	E	1.19046		1.20480		1.20480		1.21949		1.21949		1.21949	
2	E	1.39894		1.43042		1.43042		1.46287		1.46287		1.46287	
3	E	2.38082		2.40949		2.40949		2.43886		2.43886		2.43886	
4	E	2.79764		2.86058		2.86058		3.65799		3.65799		3.65799	
5	E	3.57099		3.61397		3.61397		4.38745		4.38745		4.38745	
6	E	4.19589		4.29022		4.29022		4.87676		4.87676		4.87676	
7	E	4.76086		4.81811		4.81811		5.84858		5.84858		5.84858	
8	E	5.59345		5.71908		5.71908		6.09504		6.09504		6.09504	
9	E	5.95034		6.02183		6.02183		7.30855		7.30855		7.30855	
10	E	6.99009		7.14691		7.14691		7.31272		7.31272		7.31272	
11	E	7.13934		7.22500		7.22500		8.76707		8.76707		8.76707	
12	E	8.38559		8.57346		8.57346		10.22387		10.22387		10.22387	
13	E	9.77972		9.98847		9.98847		11.67866		11.67866		11.67866	
14	E	9.51549		9.62928		9.62928		12.17505		12.17505		12.17505	
15	E	11.17226		11.42169		11.42169		14.58111		14.58111		14.58111	
16	E	10.70245		10.83019		10.83019		16.02824		16.02824		16.02824	
17	E	12.56299		12.84287		12.84287		17.01848		17.01848		17.01848	
18	E	11.88855		12.03013		12.03013		20.35003		20.35003		20.35003	
19	E	13.95169		14.26176		14.26176		21.78326		21.78326		21.78326	
20	E	15.33815		15.67814		15.67814		22.63443		22.63443		22.63443	
21	E	14.25777		14.42671		14.42671		24.63721		24.63721		24.63721	
22	E	16.72215		17.09176		17.09176		26.05746		26.05746		26.05746	
23	E	15.44072		15.62314		15.62314		27.47294		27.47294		27.47294	
24	E	18.10348		18.50239		18.50239		28.88343		28.88343		28.88343	
25	E	18.62244		18.81822		18.81822		30.28873		30.28873		30.28873	
26	E	19.48195		19.90979		19.90979		31.68863		31.68863		31.68863	
27	E	17.80284		18.01182		18.01182		32.58669		32.58669		32.58669	
28	E	20.5936		20.39428		20.39428		33.08294		33.08294		33.08294	
29	E	21.33530		21.58294		21.58294		34.47148		34.47148		34.47148	
30	E	22.50960		22.76977		22.76977		35.85408		35.85408		35.85408	
31	E	26.32442		26.89091		26.89091		36.07253		36.07253		36.07253	
32	E	1.172571		1.001728		1.001728		37.23057		37.23057		37.23057	
33	E	1.357211		0.004001		0.004001		38.60078		38.60078		38.60078	
34	E	1.357211		0.001804		0.001804		39.96458		39.96458		39.96458	
35	E	24.85294		25.13761		25.13761		41.32181		41.32181		41.32181	
36	E	29.03466		29.65344		29.65344		42.67234		42.67234		42.67234	
37	E	26.02183		0.001879		0.001879							
38	E	30.38336		0.004340		0.004340							
39	E	27.18877		0.001951		0.001951							
40	E	24.85294		0.004499		0.004499							
41	E	28.35368		0.002022		0.002022							
42	E	33.06711		0.004655		0.004655							
43	E	29.51650		0.002091		0.002091							
44	E	34.40184		0.004804		0.004804							
45	E	30.67717		0.002157		0.002157							
46	E	35.73164		0.004947		0.004947							
47	E	31.83562		0.002221		0.002221							
48	E	37.05634		0.005085		0.005085							
49	E	32.99178		0.002284		0.002284							
50	E	38.37584		0.005217		0.005217							
51	E	34.14560		0.002342		0.002342							
52	E	39.68999		0.005342		0.005342							
53	E	35.29702		0.002400		0.002400							
54	E	40.99867		0.005461		0.005461							

ECCENTRICITY M		0.16				0.17				0.18			
		1st DIF.				1st DIF.				1st DIF.			
		2ND DIF.				2ND DIF.				2ND DIF.			
31	E	36.44598	1.148965	0.002455	36.84012	1.158849	0.002702	37.24129	1.168768	0.002964	37.64707		
	V	42.30179	1.303113	0.005575	43.14946	1.323383	0.006180	44.01604	1.343707	0.006825	44.87202		
32	E	37.59244	1.146457	0.002508	37.99621	1.156090	0.002759	38.40704	1.165744	0.003024	38.81291		
	V	43.59922	1.297431	0.005682	44.46655	1.317090	0.006293	45.35281	1.336764	0.006943	46.22929		
33	E	38.73634	1.143898	0.002559	39.14949	1.153278	0.002812	39.56970	1.162665	0.003079	40.03799		
	V	44.89086	1.291647	0.005784	45.77724	1.310691	0.006399	46.68252	1.329711	0.007053	47.54827		
34	E	39.87763	1.141292	0.002606	40.29990	1.150416	0.002862	40.72924	1.159532	0.003133	41.16050		
	V	46.17663	1.285767	0.005880	47.08143	1.304193	0.006498	48.00507	1.322556	0.007155	48.97607		
35	E	41.01627	1.138640	0.002652	41.44741	1.147505	0.002911	41.88559	1.156350	0.003182	42.30179		
	V	47.45643	1.279798	0.005969	48.37903	1.297602	0.006591	49.32038	1.315306	0.007250	50.20189		
36	E	42.15221	1.135944	0.002696	42.59196	1.144549	0.002956	43.03871	1.153121	0.003229	43.53435		
	V	48.73018	1.273746	0.006052	49.66996	1.290925	0.006677	50.62835	1.307970	0.007336	51.51291		
37	E	43.28542	1.133207	0.002737	43.73351	1.141550	0.002999	44.18855	1.149847	0.003274	44.68559		
	V	49.99779	1.267615	0.006131	50.95413	1.284169	0.006756	51.92891	1.300554	0.007416	52.87202		
38	E	44.41585	1.130431	0.002776	44.87202	1.138511	0.003039	45.33509	1.146533	0.003314	45.83509		
	V	51.25920	1.214143	0.006202	52.23147	1.277341	0.006828	53.22197	1.293067	0.007487	54.16050		
39	E	45.54347	1.127619	0.002812	46.00745	1.135435	0.003076	46.47827	1.143180	0.003353	46.97607		
	V	52.51435	1.255144	0.006269	53.50191	1.270447	0.006894	54.50749	1.285516	0.007551	55.41291		
40	E	46.66824	1.124772	0.002847	47.13978	1.132323	0.003112	47.61806	1.139792	0.003388	48.03799		
	V	53.76316	1.248814	0.006330	54.76541	1.263493	0.006954	55.78543	1.277908	0.007608	56.64707		
41	E	47.79014	1.121893	0.002879	48.26895	1.129179	0.003144	48.75443	1.136371	0.003421	49.20189		
	V	55.00559	1.242429	0.006385	56.02189	1.256486	0.007007	57.05565	1.270249	0.007659	57.92607		
42	E	48.90912	1.118983	0.002910	49.39496	1.126004	0.003175	49.88735	1.132921	0.003450	50.33435		
	V	56.24158	1.235993	0.006436	57.27133	1.249432	0.007054	58.31819	1.262547	0.007702	59.20189		
43	E	50.02517	1.116046	0.002937	50.51776	1.122802	0.003202	51.01680	1.129444	0.003477	51.46050		
	V	57.47110	1.229513	0.006480	58.51366	1.242336	0.007096	59.57300	1.254808	0.007739	60.43509		
44	E	51.13825	1.113083	0.002963	51.63734	1.119575	0.003227	52.14274	1.125942	0.003502	52.58509		
	V	58.69409	1.222994	0.006519	59.74887	1.235204	0.007132	60.82004	1.247039	0.007769	59.64707		
45	E	52.54835	1.110097	0.002986	52.75366	1.116324	0.003251	53.26515	1.122418	0.003524	53.69707		
	V	59.10553	1.216440	0.006554	60.97691	1.228042	0.007162	62.05929	1.239246	0.007793	60.97607		
46	E	53.35543	1.107089	0.003008	53.86671	1.113053	0.003271	54.38403	1.118875	0.003543	54.83509		
	V	61.12039	1.209857	0.006583	62.19776	1.220855	0.007187	63.22907	1.231434	0.007812	62.03799		
47	E	54.55950	1.104061	0.003028	54.97648	1.109764	0.003289	55.44934	1.115315	0.003560	55.89707		
	V	62.32363	1.203248	0.006609	63.41141	1.213650	0.007205	64.51433	1.223611	0.007823	63.22929		
48	E	55.56051	1.101016	0.003045	56.08294	1.106458	0.003306	56.61108	1.111740	0.003575	56.03799		
	V	63.52025	1.196620	0.006628	64.61784	1.206430	0.007220	65.73011	1.215780	0.007831	64.53435		
49	E	56.55847	1.097955	0.003061	57.18607	1.103138	0.003320	57.71924	1.108153	0.003587	57.92607		
	V	64.71023	1.189975	0.006645	65.81704	1.199200	0.007230	66.93806	1.207948	0.007832	63.53435		
50	E	57.75335	1.094880	0.003075	58.28588	1.098805	0.003333	58.82379	1.104557	0.003596	58.03799		
	V	65.89355	1.183320	0.006655	67.00901	1.191966	0.007234	68.13818	1.200119	0.007829	64.83509		
51	E	58.84514	1.093794	0.003086	59.38234	1.096463	0.003342	59.92475	1.100953	0.003604	59.20189		
	V	67.07021	1.176657	0.006663	68.19374	1.184733	0.007233	69.33048	1.192300	0.007819	65.03799		
52	E	59.93384	1.088697	0.003097	60.47545	1.093113	0.003350	61.02209	1.097343	0.003610	60.43509		
	V	68.24020	1.169992	0.006665	69.37124	1.177504	0.007229	70.51497	1.184494	0.007806	66.03799		
53	E	61.01943	1.085592	0.003105	61.56521	1.089756	0.003357	62.11582	1.093729	0.003614	61.46050		
	V	69.40353	1.163327	0.006665	70.54153	1.170283	0.007221	71.69168	1.176706	0.007788	67.03799		
54	E	62.10191	1.082480	0.003112	62.65161	1.086395	0.003361	63.20593	1.090114	0.003615	62.58509		
	V	70.56019	1.156668	0.006659	71.70460	1.163076	0.007207	72.86062	1.168940	0.007766	68.03799		
55	E	63.18127	1.079363	0.003117	63.73464	1.083032	0.003363	64.29243	1.086500	0.003614	63.53435		
	V	73.99034	1.136754	0.006623	75.15078	1.141570	0.007146	76.32113	1.145818	0.007675	70.03799		
58	E	66.40063	1.069599	0.003122	66.96355	1.072944	0.003361	67.53028	1.075676	0.003603	66.03799		
	V	75.12049	1.130149	0.006605	76.28523	1.134452	0.007118	77.45931	1.138182	0.007636	71.46050		
59	E	67.46751	1.066878	0.003121	68.03314	1.069587	0.003357	68.60236	1.072081	0.003595	67.92607		
	V	76.24406	1.123565	0.006584	77.41259	1.127365	0.007087	78.58990	1.130587	0.007595	72.58509		
60	E	68.53127	1.063759	0.003119	69.09938	1.066236	0.003351	69.67085	1.068495	0.003586	69.20189		
	V	77.36106	1.117007	0.006558	78.53291	1.120312	0.007053	79.71293	1.123036	0.007551	74.83509		

ECCENTRICITY M		0.16		0.17		0.18	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
61	E	69.59192	1.060645	70.16227	1.062892	70.73577	1.064920
	V	78.47154	0.006531	79.64620	1.113296	80.82847	1.115532
62	E	70.64945	1.057536	71.22183	1.059557	71.79713	1.061356
	V	75.57551	0.006501	80.75252	1.106320	81.93655	1.108079
63	E	71.70389	1.054633	72.27806	1.056231	72.85493	1.057806
	V	80.67302	0.006468	81.85191	1.099386	83.03722	1.100679
64	E	72.75523	1.051339	73.33097	1.052916	73.90921	1.054271
	V	81.76409	0.006432	82.94440	1.092496	84.13056	1.093334
65	E	73.80348	1.048253	74.38059	1.049614	74.95966	1.050752
	V	82.84877	0.006395	84.03006	1.085654	85.21660	1.086047
66	E	74.84866	1.045178	75.42691	1.046325	76.00721	1.047249
	V	83.92710	0.006355	85.10892	1.078862	86.29542	1.078819
67	E	75.89077	1.042114	76.46996	1.043052	77.05097	1.043766
	V	84.99911	1.072012	86.18104	1.072121	87.36708	1.071654
68	E	76.92983	1.039063	77.50976	1.039793	78.09127	1.040302
	V	86.06485	0.006269	87.24647	1.065434	88.43163	1.064552
69	E	77.96586	1.036025	78.54631	1.036552	79.12813	1.036858
	V	87.12437	0.006223	88.30528	1.058802	89.48915	1.057516
70	E	78.99886	1.033001	79.51964	1.033329	80.16157	1.033436
	V	88.17772	0.006176	89.35750	1.052227	90.53969	1.050547
71	E	80.02885	1.029993	80.60976	1.030124	81.19161	1.030037
	V	89.22494	0.006126	90.40321	1.045710	91.58334	1.043647
72	E	81.05565	1.027000	81.63670	1.026939	82.21827	1.026661
	V	90.26608	0.006075	91.44247	1.039254	92.62016	1.036817
73	E	82.07988	1.024025	82.66048	1.023775	83.24158	1.023309
	V	91.30120	0.006024	92.47533	1.032859	93.65022	1.030059
74	E	83.10095	1.021068	83.68111	1.020632	84.26156	1.019982
	V	92.33035	0.005969	93.50185	1.026527	94.67359	1.023372
75	E	84.11908	1.018130	84.69862	1.017511	85.27824	1.016682
	V	93.35358	0.005915	94.52211	1.020258	95.69035	1.016759
76	E	85.13429	1.015211	85.71303	1.014413	86.29165	1.013407
	V	94.37096	0.005859	95.53617	1.014055	96.70057	1.010221
77	E	86.14660	1.012312	86.72437	1.011338	87.30183	1.010160
	V	95.38253	0.005802	96.54408	1.007918	97.70433	1.003758
78	E	87.15603	1.009434	87.73266	1.008288	88.30875	1.006941
	V	96.38836	0.005744	97.54593	1.001847	98.70170	0.997370
79	E	88.16261	1.006577	88.73792	1.005263	89.31250	0.991059
	V	97.38851	0.005684	98.54178	0.995844	99.69276	0.991059
80	E	89.16635	1.003743	89.74018	1.002263	90.31309	1.000588
	V	98.38303	0.005625	99.53168	0.989910	100.67758	0.984825
81	E	90.16728	1.000931	90.73947	0.999289	91.31054	0.997456
	V	99.37199	0.005564	100.51573	0.984044	101.65625	0.978669
82	E	91.16543	0.998143	91.73581	0.996342	92.30490	0.994354
	V	100.35544	0.005503	101.49398	0.978248	102.62884	0.972591
83	E	92.16081	0.995378	92.72923	0.993421	93.29618	0.991282
	V	101.33346	0.005440	102.46650	0.972522	103.59543	0.966591
84	E	93.15344	0.992637	93.71976	0.990528	94.28442	0.988241
	V	102.30609	0.005379	103.43336	0.968666	104.55610	0.960670
85	E	94.14336	0.989921	94.70743	0.987664	95.26965	0.985231
	V	103.27341	0.005315	104.39464	0.961281	105.51093	0.954827
86	E	95.13060	0.987231	95.69225	0.984827	96.25190	0.982253
	V	104.23548	0.005251	105.35041	0.955767	106.65999	0.949063
87	E	96.11516	0.984565	96.67427	0.982019	97.23121	0.979307
	V	105.19236	0.005188	106.30074	0.950325	107.40337	0.943379
88	E	97.09709	0.981926	97.65351	0.979240	98.20760	0.976393
	V	106.14412	0.005123	107.24569	0.944954	108.34115	0.937773
89	E	98.07640	0.979313	98.63000	0.976490	99.18112	0.973512
	V	107.09082	0.005059	108.18534	0.939655	109.27339	0.932246
90	E	99.05313	0.976727	99.60377	0.973770	100.15178	0.970663
	V	108.03252	0.004994	109.11977	0.934427	110.20019	0.926798

ECCENTRICITY M		0.16			0.17			0.18		
		1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.
91	E	100.02729	0.974167	0.002560	100.57485	0.971080	0.002690	101.11963	0.967847	0.002816
	V	108.96930	0.936776	0.004929	110.04504	0.929272	0.005155	111.12162	0.921429	0.005369
92	E	100.99893	0.971635	0.002532	101.54327	0.968421	0.002659	112.08469	0.965064	0.002783
	V	109.90121	0.931912	0.004864	110.97323	0.924188	0.005084	112.03776	0.916138	0.005291
93	E	101.96806	0.969130	0.002505	102.50906	0.965791	0.002630	103.04701	0.962315	0.002749
	V	110.82832	0.927114	0.004798	111.89241	0.919176	0.005012	112.94868	0.910926	0.005212
94	E	102.93471	0.966653	0.002477	103.47226	0.963192	0.002599	104.00661	0.959599	0.002716
	V	111.75070	0.922380	0.004734	112.80664	0.914236	0.004940	113.85447	0.905791	0.005135
95	E	103.89891	0.964204	0.002449	104.43288	0.960624	0.002568	104.96352	0.956917	0.002682
	V	112.66842	0.917713	0.004667	113.71601	0.909367	0.004869	114.75521	0.900735	0.005056
96	E	104.86070	0.961183	0.002421	105.39097	0.958087	0.002537	105.91779	0.954269	0.002648
	V	113.58153	0.913110	0.004603	114.62058	0.904570	0.004797	115.65096	0.895756	0.004979
97	E	105.82009	0.959391	0.002392	106.34653	0.955581	0.002506	106.86945	0.951654	0.002615
	V	114.49010	0.908574	0.004536	115.52043	0.899845	0.004725	116.54182	0.890854	0.004902
98	E	106.77712	0.957027	0.002364	107.29966	0.953107	0.002474	107.81852	0.949074	0.002580
	V	115.39420	0.904102	0.004472	116.41562	0.8995190	0.004655	117.42785	0.886030	0.004824
99	E	107.73181	0.954692	0.002335	108.25032	0.950663	0.002444	108.76505	0.946527	0.002547
	V	116.29390	0.899696	0.004406	117.30622	0.890606	0.004584	118.30913	0.881281	0.004749
100	E	108.68419	0.952386	0.002306	109.19857	0.948252	0.002411	109.70906	0.946015	0.002512
	V	117.18925	0.895534	0.004342	118.19232	0.886093	0.004513	119.18574	0.876609	0.004672
101	E	109.63430	0.950109	0.002276	110.14444	0.9445872	0.002380	110.65060	0.941537	0.002478
	V	118.08033	0.891078	0.004277	119.07397	0.881651	0.004442	120.05775	0.872012	0.004597
102	E	110.58216	0.947861	0.002248	111.08797	0.943523	0.002349	111.58969	0.939093	0.002444
	V	118.96720	0.886867	0.004211	119.95125	0.877278	0.004373	120.92524	0.867491	0.004521
103	E	111.52781	0.945643	0.002218	112.02917	0.941206	0.002317	112.52637	0.936683	0.002410
	V	119.84992	0.882721	0.004146	120.82422	0.872975	0.004303	121.78829	0.863044	0.004447
104	E	112.47126	0.943454	0.002189	114.83921	0.934447	0.002284	113.45068	0.934307	0.002376
	V	120.72856	0.878638	0.004083	121.69296	0.868742	0.004233	122.64696	0.858672	0.004372
105	E	113.41256	0.941294	0.002160	113.90476	0.9336669	0.002253	114.39265	0.931965	0.002342
	V	121.60318	0.874621	0.004017	122.55754	0.864578	0.004164	123.50133	0.854373	0.004299
106	E	114.35172	0.939164	0.002130	114.83921	0.934447	0.002222	115.32240	0.929658	0.002307
	V	122.47785	0.870667	0.003954	123.41802	0.860482	0.004096	124.35148	0.850148	0.004225
107	E	115.28878	0.937084	0.002100	115.77147	0.9322358	0.002189	116.24969	0.927385	0.002273
	V	123.34062	0.866777	0.003890	124.27448	0.856455	0.004027	125.19747	0.845995	0.004153
108	E	116.22378	0.934993	0.002071	116.70157	0.930101	0.002157	117.17483	0.925146	0.002239
	V	124.20357	0.862951	0.003826	125.12497	0.852496	0.003959	126.03939	0.841915	0.004080
109	E	117.15673	0.932953	0.002040	117.62955	0.927975	0.002126	118.09777	0.924941	0.002205
	V	125.06276	0.859187	0.003764	125.97558	0.848604	0.003892	126.87730	0.837907	0.004008
110	E	118.08767	0.930941	0.002012	118.55543	0.925882	0.002093	119.01854	0.920769	0.002172
	V	125.91825	0.855487	0.003700	126.82036	0.844779	0.003825	127.71126	0.833969	0.003938
111	E	119.01663	0.928960	0.001981	119.47925	0.923820	0.002062	119.93718	0.918632	0.002137
	V	126.77010	0.851850	0.003637	127.66138	0.841021	0.003758	128.54137	0.830102	0.003867
112	E	119.94364	0.927009	0.001951	120.40104	0.921790	0.002030	120.85371	0.916529	0.002103
	V	127.61837	0.848274	0.003576	128.49871	0.837330	0.003691	129.36767	0.826306	0.003796
113	E	120.86873	0.925087	0.001922	121.32083	0.919793	0.001997	121.76817	0.914460	0.002069
	V	128.46313	0.844761	0.003513	129.33241	0.833704	0.003626	130.19025	0.823728	0.003728
114	E	121.79192	0.923195	0.001892	122.23866	0.917827	0.001966	122.68059	0.912424	0.002036
	V	129.30444	0.841310	0.003451	130.16255	0.830144	0.003560	131.00917	0.818920	0.003658
115	E	122.71326	0.921333	0.001862	123.15455	0.915892	0.001935	123.59101	0.910422	0.002002
	V	130.14236	0.837920	0.003390	130.98920	0.826649	0.003495	131.82450	0.815331	0.003589
116	E	123.63276	0.919501	0.001832	124.06854	0.913990	0.001902	124.49947	0.908454	0.001968
	V	130.97695	0.834591	0.003329	131.81242	0.823218	0.003431	132.63631	0.811809	0.003522
117	E	124.55046	0.917699	0.001802	124.98066	0.912119	0.001871	125.40598	0.906519	0.001935
	V	131.80828	0.831322	0.003269	132.63227	0.819851	0.003367	133.44467	0.808354	0.003455
118	E	125.46638	0.915927	0.001772	125.89094	0.910280	0.001839	126.31060	0.904617	0.001902
	V	132.63639	0.828114	0.003208	133.44682	0.816548	0.003303	134.24963	0.809677	0.003387
119	E	126.38057	0.914164	0.001743	126.79941	0.908472	0.001808	127.21335	0.902749	0.001868
	V	133.46136	0.824966	0.003148	134.26213	0.813309	0.003239	135.05128	0.801645	0.003322
120	E	127.29304	0.912471	0.001713	127.70611	0.906696	0.001776	128.11427	0.900914	0.001835
	V	134.26323	0.821877	0.003089	135.07226	0.810132	0.003177	135.84967	0.798390	0.003255

ECCENTRICITY M		0-16		2ND DIF.		0-17		2ND DIF.		0-18	
		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.	2ND DIF.
121	E	128.20383	0.910788	0.001683	128.61106	0.904951	0.001745	129.01338	0.899112	0.001802	
122	V	135.10208	0.818848	0.003029	135.87928	0.807017	0.003115	136.64487	0.795199	0.003191	
123	E	129.11296	0.909135	0.001653	129.51430	0.903238	0.001713	129.91072	0.897343	0.001769	
124	V	135.91796	0.815878	0.002970	136.68324	0.803964	0.003053	137.43694	0.792073	0.003126	
125	E	130.02047	0.907511	0.001624	130.41585	0.901556	0.001682	130.80633	0.895607	0.001736	
126	V	136.73092	0.812966	0.002912	137.48421	0.800972	0.002992	138.22595	0.789011	0.003062	
127	E	130.92639	0.905917	0.001594	131.31576	0.899905	0.001651	131.70023	0.893904	0.001703	
128	V	137.54104	0.810113	0.002853	138.28226	0.798042	0.002930	139.01196	0.786013	0.002998	
129	E	131.83074	0.904352	0.001565	132.21404	0.898286	0.001619	132.59246	0.892233	0.001671	
130	V	138.34835	0.807317	0.002796	139.07743	0.795172	0.002870	139.79504	0.783077	0.002936	
131	E	132.73356	0.902817	0.001535	133.11074	0.896697	0.001589	133.48306	0.890595	0.001638	
132	V	139.15293	0.804578	0.002739	139.86579	0.792362	0.002810	140.57524	0.780204	0.002873	
133	E	133.63487	0.901312	0.001505	134.00588	0.895139	0.001558	134.37205	0.889899	0.001606	
134	V	139.95483	0.801897	0.002681	140.65940	0.789611	0.002751	141.35264	0.777393	0.002811	
135	E	134.53470	0.899835	0.001477	134.89949	0.893613	0.001526	135.25946	0.887415	0.001574	
136	V	140.75410	0.799272	0.002625	141.44632	0.786920	0.002691	142.12728	0.774644	0.002749	
137	E	135.43309	0.898389	0.001446	135.79161	0.892117	0.001496	136.14534	0.885874	0.001541	
138	V	141.55081	0.796704	0.002568	142.23061	0.784288	0.002632	142.89923	0.771955	0.002689	
139	E	136.33006	0.896971	0.001418	136.68226	0.890651	0.001466	137.02970	0.884365	0.001509	
140	V	142.34500	0.794192	0.002512	143.01232	0.781713	0.002575	143.66856	0.769327	0.002628	
141	E	137.22565	0.895583	0.001388	137.57148	0.885217	0.001434	137.91259	0.882887	0.001478	
142	V	143.13673	0.791736	0.002456	143.79152	0.779197	0.002516	144.43532	0.766759	0.002568	
143	E	138.11987	0.894224	0.001359	138.45929	0.887813	0.001404	138.79403	0.881442	0.001445	
144	V	143.92607	0.789334	0.002402	144.56826	0.776738	0.002459	145.19957	0.764250	0.002509	
145	E	139.01276	0.892894	0.001330	139.34573	0.886439	0.001374	139.67406	0.880028	0.001414	
146	V	144.71305	0.786988	0.002346	145.34259	0.774336	0.002402	145.96137	0.761800	0.002450	
147	E	139.90436	0.891593	0.001301	140.23082	0.885096	0.001343	140.55270	0.878646	0.001382	
148	V	145.49775	0.784696	0.002292	146.11458	0.771991	0.002345	146.72078	0.759409	0.002391	
149	E	140.79468	0.890321	0.001272	141.11460	0.883782	0.001314	141.43000	0.877295	0.001351	
150	V	146.28021	0.782459	0.002237	146.88429	0.769702	0.002289	147.47785	0.757075	0.002334	
151	E	141.68375	0.889077	0.001244	141.99710	0.882499	0.001283	142.30597	0.875975	0.001320	
152	V	147.06049	0.780275	0.002184	147.65176	0.767469	0.002233	148.23265	0.754800	0.002275	
153	E	142.57162	0.887863	0.001214	142.87835	0.881247	0.001252	143.18066	0.874687	0.001288	
154	V	147.83863	0.778145	0.002130	148.41705	0.765292	0.002177	148.98523	0.752581	0.002219	
155	E	143.45830	0.886678	0.001185	143.75838	0.880024	0.001223	144.05409	0.873430	0.001257	
156	V	148.61470	0.776069	0.002076	149.18022	0.763169	0.002123	149.73565	0.750419	0.002162	
157	E	144.34382	0.885521	0.001157	144.63721	0.878831	0.001193	144.92629	0.872203	0.001227	
158	V	149.38874	0.774045	0.002024	149.94132	0.761101	0.002068	150.48397	0.748314	0.002105	
159	E	145.22821	0.884393	0.001128	145.51487	0.877667	0.001164	145.79730	0.871008	0.001195	
160	V	150.16082	0.772074	0.001971	150.70041	0.759088	0.002013	151.23023	0.746264	0.002050	
161	E	146.11150	0.882393	0.001100	146.39141	0.876534	0.001133	146.66714	0.869844	0.001164	
162	V	150.93097	0.770156	0.001918	151.45753	0.757128	0.001960	151.97450	0.744270	0.001994	
163	E	146.99372	0.882222	0.001071	147.26684	0.875430	0.001104	147.53585	0.868710	0.001134	
164	V	151.69926	0.768289	0.001867	152.21276	0.755222	0.001906	152.71683	0.742330	0.001940	
165	E	147.87490	0.881179	0.001043	148.14119	0.874356	0.001074	148.40346	0.867606	0.001104	
166	V	152.46574	0.766474	0.001815	152.96613	0.753370	0.001852	153.45728	0.740446	0.001884	
167	E	148.75507	0.880165	0.001014	149.01450	0.873311	0.001045	149.26999	0.866533	0.001073	
168	V	153.23045	0.764710	0.001764	153.71770	0.751570	0.001800	154.19589	0.738616	0.001830	
169	E	149.63425	0.879179	0.000986	149.88680	0.872295	0.001016	150.13548	0.865491	0.001042	
170	V	153.99345	0.762998	0.001712	154.46752	0.749823	0.001747	154.93273	0.736839	0.001777	
171	E	150.51247	0.878221	0.000958	150.75811	0.871309	0.000986	150.99996	0.864478	0.001013	
172	V	154.75478	0.761337	0.001661	155.21565	0.748128	0.001695	155.66785	0.735116	0.001723	
173	E	151.38976	0.877292	0.000929	151.62846	0.870351	0.000958	151.86346	0.863496	0.000982	
174	V	155.51451	0.759726	0.001611	155.96213	0.746485	0.001643	156.40129	0.733447	0.001669	
175	E	152.26615	0.876390	0.000902	152.49788	0.869423	0.000928	152.72600	0.862544	0.000952	
176	V	156.27267	0.758165	0.001561	156.70703	0.744894	0.001591	157.13312	0.731830	0.001617	
177	E	153.14167	0.875517	0.000873	153.36641	0.868524	0.000899	153.58762	0.861621	0.000923	
178	V	157.02933	0.756655	0.001510	157.45038	0.743355	0.001539	157.86339	0.730266	0.001564	
179	E	154.01634	0.874671	0.000846	154.23406	0.861654	0.000870	154.46835	0.860729	0.000892	
180	V	157.78452	0.755194	0.001461	158.19225	0.741866	0.001489	158.59214	0.728753	0.001513	

ECCENTRICITY M		0.19			0.20			0.21		
		1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.
1	E	1.23455	1.24998	1.26580	1.249827	0.00298	1.26580	1.265631	0.000328	
2	V	1.49634	1.53087	1.56651	1.530506	0.000727	1.56651	1.566104	0.000812	
3	V	2.46896	2.49980	2.53143	1.530506	0.000727	2.53143	1.566104	0.000491	
4	V	2.99235	3.06138	3.13261	1.249529	0.000298	3.13261	1.265303	0.001215	
5	V	3.70310	3.74933	3.79673	1.529779	0.000592	3.79673	1.264158	0.000654	
6	V	4.48772	4.59116	4.69791	1.249084	0.000445	4.69791	1.262368	0.000161	
7	V	5.93684	6.11984	6.26154	1.528689	0.001090	6.26154	1.262368	0.000201	
8	V	7.47520	7.74966	7.98489	1.248492	0.000592	7.98489	1.262368	0.000975	
9	V	8.96667	9.17252	9.38489	1.527240	0.000738	9.38489	1.262368	0.002407	
10	V	10.45621	10.69573	10.94293	1.247754	0.000884	10.94293	1.262368	0.001133	
11	V	11.94350	12.21656	12.49817	1.246870	0.001265	12.49817	1.262368	0.002796	
12	V	13.42824	13.73447	14.05024	1.246764	0.001169	14.05024	1.262368	0.001289	
13	V	14.91012	15.24920	15.58976	1.246764	0.002852	15.58976	1.262368	0.003177	
14	V	16.38884	16.76040	17.14335	1.243365	0.001309	17.14335	1.262368	0.001443	
15	V	17.86411	18.26775	18.68366	1.243365	0.001446	18.68366	1.262368	0.003553	
16	V	19.33564	19.77093	20.21934	1.241919	0.001583	20.21934	1.262368	0.001594	
17	V	20.80314	21.26964	21.75004	1.241919	0.003523	21.75004	1.262368	0.003921	
18	V	22.26635	22.76357	23.27544	1.241919	0.003523	23.27544	1.262368	0.001743	
19	V	23.72500	24.25242	24.79521	1.241919	0.003523	24.79521	1.262368	0.004633	
20	V	25.17883	25.73592	26.30940	1.241919	0.003523	26.30940	1.262368	0.002031	
21	V	26.62759	27.21379	27.81663	1.241919	0.003523	27.81663	1.262368	0.004974	
22	V	28.07104	28.68577	29.31769	1.241919	0.003523	29.31769	1.262368	0.002171	
23	V	29.50894	30.15159	30.81195	1.241919	0.003523	30.81195	1.262368	0.005629	
24	V	30.94107	31.61101	32.29914	1.241919	0.003523	32.29914	1.262368	0.005940	
25	V	32.36721	33.06381	33.77901	1.241919	0.003523	33.77901	1.262368	0.002439	
26	V	33.78715	34.50976	35.25132	1.241919	0.003523	35.25132	1.262368	0.00528	
27	V	35.20070	35.94864	36.70688	1.241919	0.003523	36.70688	1.262368	0.002812	
28	V	36.60767	37.38026	38.17236	1.241919	0.003523	38.17236	1.262368	0.006804	
29	V	38.00788	38.80442	39.62068	1.241919	0.003523	39.62068	1.262368	0.007787	
30	V	39.40116	40.22094	41.06061	1.241919	0.003523	41.06061	1.262368	0.003348	
31	V	40.78735	41.62966	42.49197	1.241919	0.003523	42.49197	1.262368	0.008000	
32	V	42.16630	43.03043	43.91460	1.241919	0.003523	43.91460	1.262368	0.003441	
33	V	43.53787	44.42308	45.32835	1.241919	0.003523	45.32835	1.262368	0.003441	
34	V				1.241919	0.003523		1.262368	0.008202	
35	V				1.241919	0.003523		1.262368	0.003531	
36	V				1.241919	0.003523		1.262368	0.008391	
37	V				1.241919	0.003523		1.262368	0.003616	
38	V				1.241919	0.003523		1.262368	0.008567	
39	V				1.241919	0.003523		1.262368	0.003695	
40	V				1.241919	0.003523		1.262368	0.008730	
41	V				1.241919	0.003523		1.262368	0.003772	
42	V				1.241919	0.003523		1.262368	0.008882	

ECCENTRICITY

		18 ¹⁸ DIF.	2ND DIF.	18 ²⁰ DIF.	2ND DIF.	18 ²² DIF.	2ND DIF.
31	E	37.64963	0.003241	38.06524	0.003533	38.48823	0.003822
	V	44.90193	0.007512	45.80749	0.008243	46.77309	0.009030
32	E	38.82504	0.003303	39.25032	0.003599	39.68298	0.003909
	V	46.25836	0.007635	47.18353	0.008368	48.12867	0.009147
33	E	39.99709	0.003362	40.43174	0.003658	40.87315	0.003971
	V	47.60703	0.007747	48.55109	0.008483	49.45149	0.009262
34	E	41.16572	0.003416	41.60945	0.003715	42.06049	0.004039
	V	48.94786	0.007851	49.91006	0.008588	50.89195	0.009365
35	E	42.33089	0.003468	42.78339	0.003760	43.24315	0.004082
	V	50.28074	0.007946	51.26035	0.008682	52.25943	0.009457
36	E	43.49254	0.003517	43.95351	0.003817	44.42168	0.004132
	V	51.60559	0.008033	52.60187	0.008766	53.61741	0.009538
37	E	44.65062	0.003561	45.11977	0.003862	45.59603	0.004177
	V	52.92232	0.008110	53.93455	0.008841	54.96576	0.009608
38	E	45.80511	0.003602	46.28212	0.003904	46.76617	0.004217
	V	54.23088	0.008180	55.25833	0.008907	56.30444	0.009668
39	E	46.95595	0.003641	47.44054	0.003942	47.93205	0.004255
	V	55.53120	0.008241	56.57314	0.008962	57.63341	0.009717
40	E	48.10312	0.003676	48.59497	0.003976	49.09364	0.004288
	V	56.82322	0.008293	57.87894	0.009011	58.95262	0.009758
41	E	49.24658	0.003709	49.74541	0.004007	50.25092	0.004317
	V	58.10690	0.008340	59.17570	0.009049	60.26204	0.009788
42	E	50.38630	0.003737	50.89180	0.004034	51.40395	0.004343
	V	59.38221	0.008377	60.46337	0.009079	61.56166	0.009809
43	E	51.52226	0.003763	52.03414	0.004059	52.55241	0.004365
	V	60.64911	0.008407	61.74194	0.009103	62.85145	0.009822
44	E	52.65443	0.003786	53.17240	0.004081	53.69660	0.004384
	V	61.90757	0.008431	63.01140	0.009117	64.13141	0.009826
45	E	53.78280	0.003806	54.30656	0.004098	54.83638	0.004398
	V	63.15759	0.008448	64.27173	0.009124	65.44016	0.009823
46	E	54.90734	0.003824	55.43660	0.004113	55.99716	0.004411
	V	64.39915	0.008458	65.52293	0.009125	66.66189	0.009811
47	E	56.02805	0.003839	56.56252	0.004125	57.10271	0.004420
	V	65.63225	0.008462	66.76502	0.009119	67.91243	0.009793
48	E	57.14490	0.003851	57.68431	0.004135	58.29293	0.004425
	V	66.85689	0.008460	67.99800	0.009105	69.15320	0.009767
49	E	58.25789	0.003860	58.80195	0.004141	59.35134	0.004428
	V	68.07308	0.008451	69.22189	0.009087	70.38423	0.009736
50	E	59.36702	0.003868	59.91545	0.004145	60.46901	0.004429
	V	69.28083	0.008438	70.43672	0.009061	71.60557	0.009697
51	E	60.47227	0.003873	61.02481	0.004147	61.58226	0.004426
	V	70.48017	0.008419	71.64253	0.009031	72.81725	0.009654
52	E	61.57365	0.003875	62.13002	0.004145	62.69108	0.004420
	V	71.67110	0.008396	72.83933	0.009095	74.01933	0.009604
53	E	62.67115	0.003875	63.23108	0.004142	63.79550	0.004414
	V	72.85367	0.008366	74.02719	0.008955	75.21186	0.009550
54	E	63.76478	0.003874	64.32801	0.004137	64.89551	0.004403
	V	74.02791	0.008333	75.20613	0.008908	76.39490	0.009490
55	E	64.85453	0.003870	65.42081	0.004129	65.99112	0.004391
	V	75.19385	0.008296	76.37621	0.008859	77.56852	0.009426
56	E	65.94043	0.003864	66.50949	0.004119	67.08237	0.004377
	V	76.35154	0.008254	77.53750	0.008804	78.73277	0.009358
57	E	67.02246	0.003857	67.59406	0.004107	68.16925	0.004360
	V	77.50102	0.008208	78.69003	0.008746	79.88774	0.009286
58	E	68.10066	0.003846	68.67454	0.004094	69.25179	0.004342
	V	78.64234	0.008159	79.83388	0.008684	81.03350	0.009209
59	E	69.17501	0.003836	69.75095	0.004078	70.33000	0.004322
	V	79.77555	0.008106	80.96911	0.008618	82.17013	0.009131
60	E	70.24554	0.003823	70.82329	0.004061	71.40352	0.004300
	V	80.90071	0.008051	82.09580	0.008550	83.29772	0.009048

ECCENTRICITY		0.19		0.20		0.21	
M		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
61	E	71.31227	0.003809	71.89158	0.004043	72.47356	0.004277
	V	82.01789	0.007991	83.21400	0.008479	84.41634	0.008963
62	E	72.37520	0.003792	72.95586	0.004276	73.53895	0.004252
	V	83.12713	0.007930	84.32380	0.008404	85.52608	0.008875
63	E	73.43435	0.003775	74.01614	0.004000	74.60011	0.004225
	V	84.22851	0.007865	85.42527	0.008327	86.62704	0.008785
64	E	74.48975	0.003757	75.07244	0.003977	75.65708	0.004197
	V	85.32208	0.007798	86.51850	0.008248	87.71931	0.008692
65	E	75.54141	0.003736	76.12478	0.003953	76.70988	0.004468
	V	86.40793	0.007730	87.60356	0.008167	88.80298	0.008597
66	E	76.58936	0.003715	77.17320	0.003927	77.75854	0.004138
	V	87.48612	0.007658	88.68053	0.008083	89.87814	0.008502
67	E	77.63362	0.003693	78.21772	0.003901	78.80309	0.004106
	V	88.53673	0.007585	89.74951	0.007998	90.94491	0.008403
68	E	78.67420	0.003669	79.25836	0.003872	79.84357	0.004074
	V	89.61983	0.007510	90.81057	0.007912	92.00337	0.008305
69	E	79.71115	0.003644	80.29517	0.003843	80.88001	0.004040
	V	90.67549	0.007433	91.86382	0.007823	93.05363	0.008204
70	E	80.74447	0.003619	81.32816	0.003814	81.91245	0.004005
	V	91.72380	0.007355	92.90933	0.007733	94.09578	0.008102
71	E	81.77420	0.003592	82.35736	0.003783	82.94091	0.003971
	V	92.76483	0.007276	93.34719	0.007643	95.12993	0.008000
72	E	82.80037	0.003565	83.38282	0.003751	83.96544	0.003934
	V	93.79867	0.007196	94.97750	0.007552	96.15679	0.007897
73	E	83.82300	0.003537	84.40455	0.003718	84.98607	0.003897
	V	94.82539	0.007114	96.00036	0.007459	97.17465	0.007793
74	E	84.84212	0.003507	85.42261	0.003686	86.00285	0.003860
	V	95.84508	0.007031	97.01585	0.007365	98.18543	0.007688
75	E	85.85776	0.003478	86.43701	0.003651	87.01560	0.003821
	V	96.85782	0.006948	98.02407	0.007272	99.18862	0.007584
76	E	86.86996	0.003447	87.44779	0.003617	88.02497	0.003783
	V	97.86370	0.006863	99.02511	0.007177	100.18434	0.0095713
77	E	87.87874	0.003417	88.45497	0.003582	89.03039	0.003744
	V	98.86280	0.006779	100.01907	0.007082	101.17268	0.007374
78	E	88.88413	0.003384	89.45864	0.003547	90.03211	0.003704
	V	99.85521	0.006693	101.00604	0.006988	102.15375	0.007268
79	E	89.88618	0.003353	90.45879	0.003510	91.03017	0.003664
	V	100.84101	0.006607	101.98612	0.006892	103.12765	0.007164
80	E	90.88490	0.003320	91.45546	0.003474	92.02460	0.003623
	V	101.82029	0.006522	102.95940	0.006796	104.09450	0.007059
81	E	91.88034	0.003287	92.44869	0.003437	93.01545	0.003583
	V	102.79314	0.006434	103.92598	0.006701	105.05440	0.006953
82	E	92.87252	0.003253	93.43853	0.003399	94.00276	0.003541
	V	103.75963	0.006497	104.88956	0.006605	106.00744	0.006850
83	E	93.86148	0.003219	94.42500	0.003362	94.98657	0.003500
	V	104.71987	0.006235	105.83943	0.006510	106.95374	0.006745
84	E	94.84726	0.003184	95.40815	0.003324	95.96592	0.003459
	V	105.67393	0.006174	106.76848	0.006415	107.89340	0.006641
85	E	95.82989	0.003151	96.38801	0.003286	96.94386	0.003416
	V	106.62190	0.006088	107.72721	0.006320	108.82532	0.006539
86	E	96.80941	0.003115	97.36462	0.003247	97.91742	0.003375
	V	107.56388	0.006001	108.66172	0.006225	109.75321	0.006435
87	E	97.78584	0.003079	98.33079	0.003209	98.88765	0.003333
	V	108.49993	0.005910	109.59010	0.006130	110.67356	0.006334
88	E	98.75923	0.003045	99.30827	0.003170	99.85458	0.003290
	V	109.43016	0.005828	110.51244	0.006037	111.58768	0.006232
89	E	99.72961	0.003008	100.42753	0.003130	100.81627	0.003248
	V	110.35465	0.005742	111.42883	0.005943	112.49566	0.006131
90	E	100.69702	0.002973	101.23939	0.003092	101.77876	0.003206
	V	111.27348	0.005655	112.33938	0.005850	113.39762	0.006031

ECCENTRICITY M		0.19		0.20		0.21	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
121	E	0.893274	0.001855	0.887440	0.001905	0.881615	0.001950
	V	0.783404	0.003257	0.771639	0.003315	0.759914	0.003364
122	E	0.891453	0.001821	0.885572	0.001868	0.879703	0.001912
	V	0.780213	0.003191	0.768394	0.003245	0.756621	0.003293
123	E	0.889667	0.001786	0.883740	0.001832	0.877828	0.001875
	V	0.777090	0.003123	0.765217	0.003177	0.753399	0.003222
124	E	0.887915	0.001752	0.881943	0.001797	0.875989	0.001839
	V	0.774032	0.003058	0.762108	0.003109	0.750247	0.003152
125	E	0.886197	0.001718	0.880181	0.001762	0.874188	0.001801
	V	0.771040	0.002992	0.759067	0.003041	0.747164	0.003083
126	E	0.884513	0.001684	0.878455	0.001726	0.872423	0.001765
	V	0.768412	0.002928	0.756093	0.002974	0.744150	0.003014
127	E	0.882863	0.001650	0.876764	0.001691	0.870694	0.001729
	V	0.765249	0.002863	0.753184	0.002909	0.741204	0.002946
128	E	0.881246	0.001617	0.875108	0.001656	0.869002	0.001692
	V	0.762449	0.002800	0.750341	0.002843	0.738326	0.002878
129	E	0.879663	0.001583	0.873486	0.001622	0.867345	0.001657
	V	0.759712	0.002737	0.747563	0.002778	0.735513	0.002813
130	E	0.878113	0.001550	0.871899	0.001587	0.865724	0.001621
	V	0.757037	0.002675	0.744849	0.002714	0.732767	0.002746
131	E	0.876597	0.001516	0.870347	0.001552	0.864139	0.001585
	V	0.754424	0.002613	0.742199	0.002650	0.730085	0.002682
132	E	0.875113	0.001484	0.868828	0.001519	0.862589	0.001550
	V	0.751873	0.002551	0.739611	0.002588	0.727468	0.002617
133	E	0.873662	0.001451	0.867344	0.001484	0.861073	0.001516
	V	0.749382	0.002491	0.737086	0.002525	0.724914	0.002554
134	E	0.872244	0.001418	0.865893	0.001451	0.859593	0.001480
	V	0.746951	0.002431	0.734622	0.002464	0.722424	0.002490
135	E	0.870859	0.001385	0.864476	0.001417	0.858147	0.001446
	V	0.744580	0.002371	0.732220	0.002402	0.719995	0.002429
136	E	0.869506	0.001353	0.863092	0.001384	0.856736	0.001411
	V	0.742269	0.002311	0.729878	0.002342	0.717629	0.002366
137	E	0.868185	0.001321	0.861742	0.001350	0.855359	0.001377
	V	0.740015	0.002254	0.727596	0.002282	0.715324	0.002305
138	E	0.866897	0.001288	0.860425	0.001317	0.854016	0.001343
	V	0.737820	0.002195	0.725374	0.002222	0.713079	0.002245
139	E	0.865640	0.001257	0.859141	0.001284	0.852706	0.001310
	V	0.735683	0.002137	0.723210	0.002164	0.710895	0.002184
140	E	0.864415	0.001225	0.857890	0.001251	0.851431	0.001275
	V	0.733603	0.002080	0.721105	0.002105	0.708770	0.002125
141	E	0.863222	0.001193	0.856671	0.001219	0.850189	0.001242
	V	0.731579	0.002024	0.719058	0.002047	0.706704	0.002066
142	E	0.862061	0.001161	0.855485	0.001186	0.848980	0.001209
	V	0.729612	0.001967	0.717068	0.001990	0.704696	0.002008
143	E	0.860931	0.001130	0.854331	0.001154	0.847805	0.001175
	V	0.727701	0.001911	0.715135	0.001933	0.702746	0.001950
144	E	0.859833	0.001098	0.853209	0.001122	0.846663	0.001142
	V	0.725845	0.001856	0.713259	0.001876	0.700853	0.001893
145	E	0.858766	0.001067	0.852120	0.001089	0.845553	0.001110
	V	0.724045	0.001800	0.711438	0.001821	0.699017	0.001836
146	E	0.857730	0.001036	0.851062	0.001058	0.844476	0.001077
	V	0.722299	0.001746	0.709673	0.001765	0.697238	0.001779
147	E	0.856724	0.001006	0.850037	0.001025	0.843432	0.001044
	V	0.720607	0.001692	0.707964	0.001709	0.695514	0.001724
148	E	0.855750	0.000974	0.849043	0.000994	0.842420	0.001012
	V	0.718969	0.001638	0.706309	0.001655	0.693846	0.001668
149	E	0.854807	0.000943	0.848080	0.000963	0.841440	0.000980
	V	0.7171384	0.001585	0.704708	0.001601	0.692233	0.001613
150	E	0.853894	0.000913	0.847149	0.000931	0.840492	0.000948
	V	0.715853	0.001531	0.703161	0.001547	0.690675	0.001558

ECCENTRICITY
M

		0.18 1ST DIF.	2ND DIF.	0.20 1ST DIF.	2ND DIF.	0.21 1ST DIF.	2ND DIF.
151	E	155.51230	0.853012	155.71320	0.846249	155.91097	0.839576
	V	156.99879	0.001478	160.07094	0.701668	160.43609	0.689171
152	E	156.36446	0.00852	156.55858	0.845380	156.74967	0.838693
	V	160.41174	0.001427	160.77117	0.700228	161.12381	0.687720
153	E	157.21580	0.851338	157.40312	0.844542	157.58751	0.837840
	V	161.12331	0.001374	161.47001	0.698841	161.81013	0.686323
154	E	158.06635	0.850547	158.24686	0.843736	158.42453	0.837020
	V	161.83357	0.001322	162.16752	0.697507	162.49511	0.684979
155	E	158.91614	0.849786	159.08982	0.842960	159.26016	0.836230
	V	162.54255	0.001270	162.86374	0.696224	163.17880	0.683688
156	E	159.76519	0.849055	159.93203	0.842214	160.09623	0.835472
	V	163.25031	0.001220	163.55874	0.694994	163.86125	0.682450
157	E	160.61354	0.848354	160.77353	0.841500	160.93087	0.834746
	V	163.95690	0.001168	164.25255	0.693815	164.54251	0.681263
158	E	161.46123	0.847682	161.61435	0.840816	161.76503	0.834050
	V	164.66238	0.001118	164.94524	0.692687	165.22264	0.680128
159	E	162.30827	0.847041	162.45451	0.840162	162.59841	0.832385
	V	165.36679	0.001067	165.63685	0.691611	165.90169	0.679044
160	E	163.15470	0.846429	163.29405	0.839539	163.43116	0.832752
	V	166.07018	0.001017	166.32744	0.690585	166.57970	0.678012
161	E	164.00054	0.845847	164.13299	0.838945	164.26331	0.832149
	V	166.77260	0.000968	167.01705	0.689609	167.25673	0.677031
162	E	164.84584	0.845294	164.97138	0.838383	165.09489	0.831577
	V	167.47411	0.000953	167.70573	0.688684	167.93283	0.676100
163	E	165.69061	0.844771	165.80923	0.837850	165.92552	0.831035
	V	168.53489	0.000868	168.39354	0.687809	168.60805	0.675219
164	E	166.53478	0.844278	166.54657	0.837347	166.75645	0.830524
	V	168.87457	0.000819	169.08052	0.686984	169.28244	0.674389
165	E	167.37870	0.843813	167.46835	0.836874	167.58649	0.830043
	V	169.97362	0.000769	169.76675	0.686208	169.95605	0.673609
166	E	168.22208	0.843378	168.32198	0.836431	168.41608	0.829593
	V	170.27195	0.000721	170.45221	0.685481	170.62892	0.672878
167	E	169.06505	0.842972	169.15590	0.836018	169.24526	0.829173
	V	170.96961	0.000672	171.13702	0.684804	171.30112	0.672197
168	E	169.90765	0.842596	169.99153	0.835634	170.07404	0.828784
	V	171.66665	0.000623	171.82119	0.684176	171.97269	0.671566
169	E	170.74990	0.842249	170.82681	0.835280	170.90246	0.828424
	V	172.36311	0.000574	172.50479	0.683597	172.64357	0.670983
170	E	171.59183	0.841930	171.66177	0.834956	171.73036	0.828095
	V	173.05904	0.000527	173.18786	0.683067	173.31412	0.670450
171	E	172.43347	0.841641	172.49643	0.834662	172.59836	0.827796
	V	173.75450	0.000478	173.87044	0.682585	173.98409	0.827796
172	E	173.27485	0.841381	173.33082	0.834397	173.38598	0.827527
	V	174.44952	0.000420	174.55259	0.682152	174.65362	0.669530
173	E	174.11600	0.841150	174.16499	0.834161	174.21317	0.827287
	V	175.14417	0.000382	175.23436	0.681767	175.32276	0.669143
174	E	174.95694	0.840947	174.99894	0.833956	175.09156	0.827078
	V	175.83848	0.000334	175.91579	0.681430	175.99125	0.827078
175	E	175.75772	0.840774	175.83722	0.833779	175.86715	0.826899
	V	176.53250	0.000286	176.59693	0.681142	176.66008	0.668515
176	E	176.63835	0.840630	176.66635	0.833632	176.69390	0.826750
	V	177.22629	0.000238	177.27783	0.680902	177.32835	0.8268274
177	E	177.47886	0.840514	177.49987	0.833515	177.52053	0.826630
	V	177.91988	0.000191	177.95854	0.680710	177.99643	0.668081
178	E	178.31929	0.840428	178.33329	0.833426	178.34707	0.826541
	V	178.61333	0.000143	178.63911	0.680566	178.66437	0.667936
179	E	179.15966	0.840370	179.16666	0.833368	179.17355	0.826481
	V	179.30669	0.000095	179.31958	0.680470	179.33221	0.667839
180	E	180.00000	0.840341	180.00000	0.833338	180.00000	0.826451
	V	180.00000	0.693309	180.00000	0.680422	180.00000	0.667791

ECCENTRICITY M		0.22		2ND DIF.		0.23		2ND DIF.		0.24		2ND DIF.	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
1	E	1.28202				1.29867				1.31575			
2	V	1.60331				1.64132				1.68061			
3	E	2.56386				2.59714				2.63129			
4	V	3.20617				3.28214				3.36066			
5	E	3.84534				3.89521				3.94638			
6	V	4.80812				4.86196				4.91838			
7	E	5.12628				5.19268				5.26082			
8	V	6.40872				6.56027				6.71885			
9	E	8.00752				8.19658				8.39188			
10	V	9.60408				9.83039				10.06415			
11	E	11.17976				11.46123				11.73311			
12	V	12.78873				13.08861				13.39824			
13	E	14.37596				14.71207				15.05902			
14	V	15.95925				16.33115				16.71894			
15	E	17.53818				17.94539				18.36551			
16	V	19.11236				19.55436				20.01024			
17	E	20.68139				21.15764				21.72734			
18	V	22.24491				22.75481				23.38293			
19	E	23.80254				24.34546				24.90482			
20	V	25.35395				25.92923				26.52169			
21	E	26.89877				27.50574				28.13056			
22	V	28.43670				29.07462				29.73102			
23	E	29.96742				30.63555				31.32274			
24	V	31.49062				32.18821				32.90534			
25	E	33.00603				33.73228				34.47852			
26	V	34.51337				35.26769				36.04196			
27	E	36.01239				36.79355				37.59538			
28	V	37.50285				38.31021				39.13850			
29	E	38.98451				39.81724				40.67109			
30	V	40.45718				41.31441				42.19289			
31	E	41.92064				42.80152				43.70372			
32	V	43.37473				44.54085				45.20337			
33	E	44.81926				45.74482				46.69168			
34	V	46.25409				47.20068				48.16848			
35	E	1.28202				1.29867				1.31575			
36	V	1.60331				1.64132				1.68061			
37	E	2.56386				2.59714				2.63129			
38	V	3.20617				3.28214				3.36066			
39	E	3.84534				3.89521				3.94638			
40	V	4.80812				4.86196				4.91838			
41	E	5.12628				5.19268				5.26082			
42	V	6.40872				6.56027				6.71885			
43	E	8.00752				8.19658				8.39188			
44	V	9.60408				9.83039				10.06415			
45	E	11.17976				11.46123				11.73311			
46	V	12.78873				13.08861				13.39824			
47	E	14.37596				14.71207				15.05902			
48	V	15.95925				16.33115				16.71894			
49	E	17.53818				17.94539				18.36551			
50	V	19.11236				19.55436				20.01024			
51	E	20.68139				21.15764				21.72734			
52	V	22.24491				22.75481				23.38293			
53	E	23.80254				24.34546				24.90482			
54	V	25.35395				25.92923				26.52169			
55	E	26.89877				27.50574				28.13056			
56	V	28.43670				29.07462				29.73102			
57	E	29.96742				30.63555				31.32274			
58	V	31.49062				32.18821				32.90534			
59	E	33.00603				33.73228				34.47852			
60	V	34.51337				35.26769				36.04196			
61	E	36.01239				36.79355				37.59538			
62	V	37.50285				38.31021				39.13850			
63	E	38.98451				39.81724				40.67109			
64	V	40.45718				41.31441				42.19289			
65	E	41.92064				42.80152				43.70372			
66	V	43.37473				44.54085				45.20337			
67	E	44.81926				45.74482				46.69168			
68	V	46.25409				47.20068				48.16848			
69	E	1.28202				1.29867				1.31575			
70	V	1.60331				1.64132				1.68061			
71	E	2.56386				2.59714				2.63129			
72	V	3.20617				3.28214				3.36066			
73	E	3.84534				3.89521				3.94638			
74	V	4.80812				4.86196				4.91838			
75	E	5.12628				5.19268				5.26082			
76	V	6.40872				6.56027				6.71885			
77	E	8.00752				8.19658				8.39188			
78	V	9.60408				9.83039				10.06415			
79	E	11.17976				11.46123				11.73311			
80	V	12.78873				13.08861				13.39824			
81	E	14.37596				14.71207				15.05902			
82	V	15.95925				16.33115				16.71894			
83	E	17.53818				17.94539				18.36551			
84	V	19.11236				19.55436				20.01024			
85	E	20.68139				21.15764				21.72734			
86	V	22.24491				22.75481				23.38293			
87	E	23.80254				24.34546				24.90482			
88	V	25.35395				25.92923				26.52169			
89	E	26.89877				27.50574				28.13056			
90	V	28.43670				29.07462				29.73102			
91	E	29.96742				30.63555				31.32274			
92	V	31.49062				32.18821				32.90534			
93	E	33.00603				33.73228				34.47852			
94	V	34.51337				35.26769				36.04196			
95	E	36.01239				36.79355				37.59538			
96	V	37.50285				38.31021				39.13850			
97	E	38.98451				39.81724				40.67109			
98	V	40.45718				41.31441				42.19289			
99	E	41.92064				42.80152				43.70372			
100	V	43.37473				44.54085				45.20337			
101	E	44.81926				45.74482				46.69168			
102	V	46.25409				47.20068				48.16848			

ECCENTRICITY

		0.2° Dif.	2ND Dif.	0.2° Dif.	2ND Dif.	0.2° Dif.	2ND Dif.
31	E	38.91872	0.004167	39.35682	0.004511	1.218585	0.004511
	V	47.67908	0.009845	48.64582	0.010718	1.445141	0.010718
32	E	40.12311	0.004236	40.57083	0.004580	1.214005	0.004580
	V	49.09409	0.009971	50.08011	0.010843	1.434298	0.010843
33	E	41.32320	0.004300	41.78019	0.004644	1.209361	0.004644
	V	50.49902	0.010085	51.50365	0.010953	1.423345	0.010953
34	E	42.51893	0.004358	42.98484	0.004703	1.204658	0.004703
	V	51.89377	0.010185	52.91576	0.011048	1.412297	0.011048
35	E	43.71025	0.004412	44.18475	0.004756	1.199902	0.004756
	V	53.27824	0.010273	54.31692	0.011130	1.401167	0.011130
36	E	44.89711	0.004460	45.37984	0.004804	1.195098	0.004804
	V	54.65236	0.010349	55.70689	0.011197	1.389970	0.011197
37	E	46.07946	0.004505	46.57010	0.004847	1.190251	0.004847
	V	56.01608	0.010411	57.08561	0.011252	1.378718	0.011252
38	E	47.25727	0.004545	47.75546	0.004886	1.185365	0.004886
	V	57.36932	0.010464	58.45304	0.011294	1.367424	0.011294
39	E	48.43050	0.004581	48.93591	0.004918	1.180447	0.004918
	V	58.71207	0.010505	59.80913	0.011324	1.356100	0.011324
40	E	49.59912	0.004611	50.11141	0.004947	1.175500	0.004947
	V	60.04427	0.010555	60.44757	0.011343	1.344757	0.011343
41	E	50.76310	0.004639	51.28194	0.004971	1.170529	0.004971
	V	61.36593	0.010555	62.48730	0.011349	1.333408	0.011349
42	E	51.92241	0.004661	52.44767	0.004991	1.165538	0.004991
	V	62.67702	0.010588	63.80936	0.011367	1.322061	0.011367
43	E	53.07705	0.004681	53.60801	0.005006	1.160532	0.005006
	V	63.97754	0.010565	65.12009	0.011379	1.310729	0.011379
44	E	54.22699	0.004696	54.76352	0.005018	1.155514	0.005018
	V	65.26750	0.010558	66.44191	0.011310	1.299419	0.011310
45	E	55.37222	0.004708	55.91401	0.005025	1.150489	0.005025
	V	66.54693	0.010541	67.70765	0.011278	1.288141	0.011278
46	E	56.51274	0.004717	57.05947	0.005030	1.145459	0.005030
	V	67.81583	0.010516	68.98455	0.011238	1.276903	0.011238
47	E	57.64853	0.004721	58.19990	0.005050	1.140430	0.005050
	V	69.07426	0.010483	70.25027	0.011189	1.265714	0.011189
48	E	58.77960	0.004723	59.33530	0.005077	1.135543	0.005077
	V	70.32224	0.010444	71.50485	0.011133	1.254581	0.011133
49	E	59.90595	0.004721	60.46568	0.005070	1.130383	0.005070
	V	71.55982	0.010398	72.74836	0.011070	1.243511	0.011070
50	E	61.02758	0.004717	61.59106	0.005011	1.125372	0.005011
	V	72.78706	0.010344	73.98087	0.011000	1.232511	0.011000
51	E	62.14451	0.004710	62.71143	0.004999	1.120373	0.004999
	V	74.00402	0.010285	75.20246	0.010923	1.221586	0.010923
52	E	63.25673	0.004701	63.82682	0.004983	1.115390	0.004983
	V	75.21075	0.010221	76.41320	0.010843	1.210743	0.010843
53	E	64.36426	0.004687	64.93724	0.004966	1.110424	0.004966
	V	76.40733	0.010151	77.61318	0.010756	1.199987	0.010756
54	E	65.46712	0.004673	66.04272	0.004945	1.105479	0.004945
	V	77.59384	0.010076	78.80231	0.010665	1.189322	0.010665
55	E	66.56533	0.004656	67.14328	0.004923	1.100556	0.004923
	V	78.77035	0.009997	79.98126	0.010569	1.178753	0.010569
56	E	67.65890	0.004637	68.23894	0.004898	1.095658	0.004898
	V	79.93694	0.009913	81.14955	0.010468	1.168285	0.010468
57	E	68.74785	0.004615	69.32972	0.004871	1.090787	0.004871
	V	81.09371	0.009826	82.30747	0.010364	1.157921	0.010364
58	E	69.83222	0.004592	70.41567	0.004842	1.085945	0.004842
	V	82.24075	0.009735	83.45513	0.010257	1.147664	0.010257
59	E	70.91201	0.004566	71.49680	0.004811	1.081134	0.004811
	V	83.37814	0.009640	84.59265	0.010147	1.137517	0.010147
60	E	71.98727	0.004540	72.65716	0.004778	1.076356	0.004778
	V	84.50599	0.009543	85.72013	0.010033	1.127484	0.010033

ECCENTRICITY M		0.22		0.23		0.24	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
61	E	73.05801	1.070746	0.004510	0.004744	1.071612	0.004744
	V	85.62440	1.118409	0.009443	0.009917	1.117557	0.009917
62	E	74.12428	1.066265	0.004481	0.004709	1.066903	0.004709
	V	86.73347	1.109068	0.009341	0.009800	1.107767	0.009800
63	E	75.18610	1.061816	0.004449	0.004671	1.062231	0.004671
	V	87.83330	1.099832	0.009236	0.009680	1.098087	0.009680
64	E	76.24350	1.057400	0.004416	0.004633	1.057598	0.004633
	V	88.92400	1.090703	0.009129	0.009558	1.088559	0.009558
65	E	77.29651	1.053018	0.004382	0.004593	1.053005	0.004593
	V	90.00569	1.081682	0.009021	0.009435	1.079094	0.009435
66	E	78.34519	1.048672	0.004346	0.004553	1.048452	0.004553
	V	91.07846	1.072770	0.008912	0.009311	1.069793	0.009311
67	E	79.38955	1.043362	0.004310	0.004511	1.043941	0.004511
	V	92.14243	1.063970	0.008800	0.009186	1.060597	0.009186
68	E	80.42964	1.040089	0.004273	0.004468	1.039473	0.004468
	V	93.15771	1.055283	0.008687	0.009060	1.051537	0.009060
69	E	81.46549	1.035855	0.004234	0.004425	1.035048	0.004425
	V	94.24442	1.046709	0.008574	0.008933	1.042604	0.008933
70	E	82.49715	1.031660	0.004195	0.004381	1.030667	0.004381
	V	95.28267	1.038248	0.008461	0.008806	1.033798	0.008806
71	E	83.52466	1.025506	0.004154	0.004335	1.026332	0.004335
	V	96.31257	1.029903	0.008345	0.008679	1.025119	0.008679
72	E	84.54805	1.023392	0.004114	0.004290	1.022042	0.004290
	V	97.33424	1.021672	0.008231	0.008551	1.016568	0.008551
73	E	85.56737	1.019319	0.004073	0.004263	1.017799	0.004263
	V	98.34780	1.013558	0.008114	0.008424	1.008144	0.008424
74	E	86.58266	1.015289	0.004030	0.004197	1.013602	0.004197
	V	99.35336	1.005558	0.008000	0.008237	1.009847	0.008237
75	E	87.59396	1.011301	0.003988	0.004149	1.009453	0.004149
	V	100.35103	0.997675	0.007883	0.008169	0.991678	0.008169
76	E	88.60132	1.007357	0.003944	0.004102	1.005351	0.004102
	V	101.34094	0.989907	0.007768	0.008043	0.983635	0.008043
77	E	89.60477	1.003456	0.003901	0.004054	1.001237	0.004054
	V	102.32319	0.982255	0.007652	0.007917	0.975718	0.007917
78	E	90.60437	0.999599	0.003857	0.004006	0.974461	0.004006
	V	103.29791	0.974718	0.007537	0.007791	0.967927	0.007791
79	E	91.60016	0.995786	0.003813	0.003937	0.967332	0.003937
	V	104.28521	0.967296	0.007422	0.007666	0.960261	0.007666
80	E	92.59217	0.992017	0.003769	0.003908	0.959426	0.003908
	V	105.25220	0.959989	0.007307	0.007542	0.952719	0.007542
81	E	93.58047	0.988294	0.003723	0.003860	0.951566	0.003860
	V	106.17799	0.952796	0.007193	0.007418	0.945301	0.007418
82	E	94.65608	0.984615	0.003679	0.003810	0.941756	0.003810
	V	107.12371	0.943717	0.007079	0.007296	0.933922	0.007296
83	E	95.54606	0.980982	0.003633	0.003762	0.937994	0.003762
	V	108.06246	0.938750	0.006967	0.007174	0.930831	0.007174
84	E	96.52346	0.977394	0.003588	0.003712	0.924282	0.003712
	V	108.99436	0.931895	0.006855	0.007053	0.917711	0.007053
85	E	97.49731	0.973852	0.003542	0.003664	0.920618	0.003664
	V	109.91951	0.925152	0.006743	0.006934	0.916844	0.006934
86	E	98.46766	0.970355	0.003497	0.003614	0.916004	0.003614
	V	110.83803	0.918520	0.006632	0.006815	0.910029	0.006815
87	E	99.43457	0.966903	0.003452	0.003565	0.903439	0.003565
	V	111.75003	0.911997	0.006523	0.006698	0.903331	0.006698
88	E	100.39807	0.963497	0.003406	0.003516	0.903923	0.003516
	V	112.65561	0.905584	0.006413	0.006582	0.903467	0.006582
89	E	101.35820	0.960137	0.003360	0.003467	0.903467	0.003467
	V	113.55489	0.895278	0.006306	0.006466	0.902283	0.006466
90	E	102.31502	0.956822	0.003315	0.003419	0.903037	0.003419
	V	114.44797	0.893080	0.006198	0.006353	0.893930	0.006353

ECCENTRICITY		$1S^{22}$ DIF.	2ND DIF.	$1S^{23}$ DIF.	2ND DIF.	$1S^{24}$ DIF.	2ND DIF.
91	E	103.26858	0.953553	0.003269	0.003269	0.949667	0.003370
92	V	115.33495	0.886987	0.006093	0.006093	0.877650	0.006240
93	V	104.21891	0.950329	0.003224	0.003224	0.946346	0.003321
94	V	116.21595	0.881000	0.005987	0.005987	0.871562	0.006128
95	V	105.16606	0.947151	0.003178	0.003178	0.943073	0.003273
96	V	117.09107	0.875116	0.005884	0.005884	0.865563	0.006019
97	E	106.11007	0.944017	0.003134	0.003134	0.939848	0.003225
98	V	117.96041	0.869336	0.005780	0.005780	0.859664	0.005909
99	V	107.05100	0.940929	0.003088	0.003088	0.936671	0.003177
100	V	118.82406	0.863658	0.005678	0.005678	0.853832	0.005802
101	V	107.98889	0.937886	0.003043	0.003043	0.933542	0.003129
102	V	119.68214	0.858080	0.005578	0.005578	0.848137	0.005695
103	V	108.92378	0.934888	0.002998	0.002998	0.930460	0.003082
104	V	120.53475	0.852602	0.005478	0.005478	0.842566	0.005591
105	E	109.85571	0.931934	0.002954	0.002954	0.927425	0.003035
106	V	121.38197	0.847223	0.005379	0.005379	0.837059	0.005487
107	V	110.78474	0.929025	0.002909	0.002909	0.924438	0.002987
108	V	122.23291	0.841942	0.005281	0.005281	0.831675	0.005384
109	V	111.71090	0.926159	0.002866	0.002866	0.921497	0.002941
110	V	123.06067	0.836756	0.005186	0.005186	0.826391	0.005284
111	V	112.63423	0.923338	0.002821	0.002821	0.918602	0.002895
112	V	123.89233	0.831667	0.005089	0.005089	0.821208	0.005183
113	E	113.55480	0.920561	0.002777	0.002777	0.915754	0.002868
114	V	124.71901	0.826671	0.004996	0.004996	0.816123	0.005085
115	V	114.47262	0.917828	0.002733	0.002733	0.912931	0.002803
116	V	125.54077	0.821769	0.004902	0.004902	0.811135	0.004988
117	V	115.38776	0.915137	0.002691	0.002691	0.910194	0.002757
118	V	126.35773	0.816959	0.004810	0.004810	0.806244	0.004891
119	V	116.30025	0.912490	0.002647	0.002647	0.907483	0.002711
120	V	127.16997	0.812240	0.004719	0.004719	0.801447	0.004797
121	E	117.21014	0.909886	0.002604	0.002604	0.904816	0.002667
122	V	127.97758	0.807610	0.004630	0.004630	0.796744	0.004703
123	V	118.11746	0.907325	0.002561	0.002561	0.902194	0.002622
124	V	128.78065	0.803069	0.004541	0.004541	0.792133	0.004611
125	V	119.02227	0.904806	0.002519	0.002519	0.899616	0.002578
126	V	129.57927	0.798616	0.004453	0.004453	0.787613	0.004520
127	V	119.92460	0.902329	0.002477	0.002477	0.897082	0.002534
128	V	130.37352	0.794250	0.004366	0.004366	0.783182	0.004431
129	V	120.82449	0.899894	0.002435	0.002435	0.894592	0.002490
130	V	131.16349	0.789969	0.004281	0.004281	0.778841	0.004341
131	E	121.72199	0.897501	0.002393	0.002393	0.892146	0.002446
132	V	131.94926	0.785773	0.004196	0.004196	0.774587	0.004254
133	V	122.61714	0.895149	0.002352	0.002352	0.889743	0.002403
134	V	132.73092	0.781660	0.004113	0.004113	0.770419	0.004168
135	V	123.50998	0.892838	0.002311	0.002311	0.887382	0.002361
136	V	133.50855	0.777630	0.004030	0.004030	0.766336	0.004083
137	E	124.40055	0.890568	0.002270	0.002270	0.885084	0.002318
138	V	134.28223	0.773681	0.003949	0.003949	0.762338	0.003998
139	E	125.28889	0.888339	0.002229	0.002229	0.882788	0.002276
140	V	135.05204	0.769812	0.003869	0.003869	0.758422	0.003916
141	V	126.17504	0.886150	0.002189	0.002189	0.880554	0.002234
142	V	135.81807	0.766023	0.003789	0.003789	0.754588	0.003834
143	V	127.05904	0.884001	0.002149	0.002149	0.878381	0.002193
144	V	136.58038	0.762312	0.003711	0.003711	0.750835	0.003753
145	V	127.94093	0.881892	0.002109	0.002109	0.876210	0.002151
146	V	137.33906	0.758679	0.003633	0.003633	0.747161	0.003674
147	E	128.82075	0.879822	0.002070	0.002070	0.874099	0.002111
148	V	138.09418	0.755122	0.003557	0.003557	0.743566	0.003595
149	E	129.69854	0.877792	0.002030	0.002030	0.872029	0.002070
150	V	138.84582	0.751641	0.003481	0.003481	0.740049	0.003517

ECCENTRICITY M		0.22		0.23		0.24				
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.			
121	E	130.57434	0.875800	0.001992	130.95272	0.870000	0.002029	131.32644	0.864216	0.002064
	V	139.59405	0.748234	0.003407	140.30384	0.736608	0.003441	141.00294	0.725041	0.003468
122	E	131.44819	0.873848	0.001952	131.82073	0.868010	0.001990	132.18863	0.862193	0.002023
	V	140.33895	0.744902	0.003332	141.03708	0.733243	0.003365	141.72459	0.721650	0.003391
123	E	132.32012	0.871933	0.001915	132.68679	0.866060	0.001950	133.04484	0.860210	0.001983
	V	141.08060	0.741642	0.003260	141.76703	0.729952	0.003291	142.44292	0.718335	0.003315
124	E	133.19018	0.870058	0.001875	133.55094	0.864150	0.001910	133.90711	0.858268	0.001942
	V	141.81905	0.738454	0.003188	142.49377	0.726735	0.003217	143.15802	0.715096	0.003239
125	E	134.05840	0.868220	0.001838	134.41321	0.862278	0.001872	134.76347	0.856367	0.001901
	V	142.55439	0.735337	0.003117	143.21736	0.723591	0.003144	143.86995	0.711930	0.003166
126	E	134.92482	0.866419	0.001801	135.21736	0.860446	0.001832	135.61798	0.854505	0.001862
	V	143.28668	0.732291	0.003046	143.93788	0.720519	0.003072	144.57879	0.708838	0.003092
127	E	135.78947	0.864656	0.001763	136.13231	0.858652	0.001794	136.47066	0.852683	0.001822
	V	144.01599	0.729314	0.002977	144.65539	0.717517	0.003002	145.28461	0.705818	0.003020
128	E	136.65241	0.862931	0.001725	136.98921	0.856896	0.001756	137.32156	0.850900	0.001783
	V	144.74240	0.726406	0.002908	145.36998	0.714586	0.002931	145.98747	0.702870	0.002948
129	E	137.51365	0.861242	0.001689	137.84439	0.855179	0.001717	138.17072	0.849156	0.001744
	V	145.46597	0.723566	0.002840	146.08171	0.711124	0.002862	146.68747	0.699992	0.002878
130	E	138.37324	0.859590	0.001652	138.69789	0.853499	0.001680	139.01817	0.847451	0.001705
	V	146.18676	0.720793	0.002773	146.79063	0.708931	0.002793	147.38465	0.697183	0.002809
131	E	139.23121	0.857975	0.001615	139.54974	0.851856	0.001643	139.86395	0.845784	0.001667
	V	146.90484	0.718086	0.002707	147.49684	0.706204	0.002727	148.07909	0.694443	0.002740
132	E	140.08761	0.856396	0.001579	140.39999	0.850251	0.001605	140.70811	0.844155	0.001629
	V	147.62029	0.715445	0.002641	148.20038	0.703545	0.002659	148.77086	0.691770	0.002673
133	E	140.94246	0.854852	0.001544	141.24867	0.848682	0.001569	141.55067	0.842564	0.001591
	V	148.33316	0.712869	0.002576	148.90134	0.700952	0.002593	149.46003	0.689165	0.002605
134	E	141.79581	0.853345	0.001507	142.09583	0.847150	0.001532	142.39168	0.841010	0.001554
	V	149.04351	0.710357	0.002512	149.59976	0.698424	0.002528	150.14665	0.686626	0.002539
135	E	142.64768	0.851873	0.001472	142.94148	0.845655	0.001495	143.23117	0.839494	0.001516
	V	149.75142	0.707909	0.002448	150.29572	0.695960	0.002464	150.83080	0.684152	0.002474
136	E	143.49812	0.850437	0.001436	143.78568	0.844196	0.001459	144.06919	0.838014	0.001480
	V	150.45695	0.705523	0.002386	150.98928	0.693561	0.002399	151.51255	0.681742	0.002410
137	E	144.34715	0.849035	0.001402	144.62845	0.842773	0.001423	144.90576	0.836571	0.001443
	V	151.16015	0.703200	0.002323	151.68051	0.691224	0.002337	152.19194	0.679397	0.002345
138	E	145.19482	0.847669	0.001366	145.46984	0.841385	0.001388	145.74092	0.835165	0.001406
	V	151.86108	0.700938	0.002262	152.36946	0.688950	0.002274	152.86906	0.677114	0.002283
139	E	146.04116	0.846337	0.001332	146.30987	0.840033	0.001352	146.57472	0.833795	0.001370
	V	152.55982	0.698737	0.002201	153.05619	0.686738	0.002212	153.54395	0.674894	0.002220
140	E	146.88620	0.845040	0.001297	147.14858	0.838716	0.001317	147.40718	0.832460	0.001335
	V	153.25642	0.696597	0.002140	153.74078	0.684586	0.002152	154.21669	0.672736	0.002158
141	E	147.72997	0.843777	0.001263	147.98602	0.837434	0.001282	148.23834	0.831162	0.001298
	V	153.95094	0.694516	0.002081	154.42327	0.682495	0.002091	154.88873	0.670639	0.002097
142	E	148.57252	0.842548	0.001229	148.82221	0.836187	0.001247	149.06824	0.829899	0.001263
	V	154.64343	0.692495	0.002021	155.10374	0.680464	0.002031	155.55593	0.668602	0.002037
143	E	149.41388	0.841353	0.001195	149.65718	0.834975	0.001212	149.89691	0.828671	0.001228
	V	155.33396	0.690532	0.001963	155.78223	0.678492	0.001972	156.22256	0.666625	0.001977
144	E	150.25407	0.840192	0.001161	150.49098	0.833797	0.001178	150.72439	0.827478	0.001193
	V	156.02259	0.688627	0.001905	156.45881	0.676579	0.001913	156.88726	0.664707	0.001918
145	E	151.09313	0.839064	0.001128	151.32363	0.832653	0.001144	151.55501	0.826320	0.001158
	V	156.70937	0.686780	0.001847	157.13354	0.674724	0.001855	157.55011	0.662848	0.001859
146	E	151.93110	0.837970	0.001094	152.15517	0.831543	0.001110	152.37590	0.825196	0.001124
	V	157.39436	0.684990	0.001790	157.80646	0.672927	0.001797	158.21116	0.661046	0.001802
147	E	152.76801	0.836909	0.001061	152.98556	0.830467	0.001076	153.20001	0.824107	0.001089
	V	158.07762	0.683256	0.001734	158.47765	0.671187	0.001740	158.87046	0.659302	0.001744
148	E	153.60389	0.835881	0.001028	153.81507	0.829425	0.001042	154.02306	0.823052	0.001055
	V	158.75919	0.681579	0.001677	159.14715	0.669503	0.001684	159.52807	0.657615	0.001687
149	E	154.43818	0.834886	0.000995	154.64348	0.828416	0.001009	154.84509	0.822031	0.001021
	V	159.43915	0.679957	0.001622	159.81503	0.667875	0.001628	160.18406	0.655985	0.001630
150	E	155.21720	0.833923	0.000963	155.47092	0.827441	0.000975	155.66613	0.821043	0.000988
	V	160.11754	0.678390	0.001567	160.48133	0.666303	0.001572	160.83847	0.654410	0.001575

ECCENTRICITY		$1\sigma^{12}$ DIF.	2ND DIF.	$1\sigma^{23}$ DIF.	2ND DIF.	$1\sigma^{24}$ DIF.	2ND DIF.
151	E	0.832993	0.000930	156.29742	0.826498	156.48623	0.820090
152	V	0.676878	0.001512	161.14611	0.664786	161.49136	0.652891
153	E	0.832096	0.000897	157.12301	0.825589	157.30540	0.819170
154	V	0.675426	0.001458	161.80944	0.663323	162.14219	0.651426
155	E	0.831231	0.000865	157.94712	0.824712	158.12368	0.818283
156	V	0.674016	0.001404	162.47135	0.661915	162.79280	0.650017
157	E	0.830397	0.000834	158.77159	0.823868	158.94110	0.817429
158	V	0.672666	0.001350	163.13191	0.660561	163.44146	0.648661
159	E	0.829596	0.000801	159.59465	0.823056	159.75771	0.816608
160	V	0.671368	0.001298	163.79118	0.659260	164.08882	0.647359
161	E	0.828827	0.000769	160.41692	0.822217	160.57353	0.815820
162	V	0.670124	0.001244	164.44919	0.658012	164.73493	0.646110
163	E	0.828090	0.000737	161.23845	0.821530	161.38860	0.815065
164	V	0.668932	0.001192	165.10600	0.656817	165.37981	0.644914
165	E	0.827384	0.000706	162.05927	0.820815	162.20294	0.814342
166	V	0.667792	0.001140	162.76168	0.655615	162.92362	0.643370
167	E	0.826709	0.000675	162.87940	0.820132	163.01659	0.813651
168	V	0.666704	0.001088	166.41626	0.654584	166.66630	0.642679
169	E	0.826066	0.000643	163.69888	0.819481	163.82958	0.812993
170	V	0.665667	0.001037	167.06981	0.653545	167.30794	0.641640
171	E	0.825455	0.000611	164.51774	0.818861	164.64195	0.812367
172	V	0.664682	0.000985	167.72237	0.652558	167.94859	0.640652
173	E	0.824874	0.000581	165.33602	0.818274	165.45372	0.811773
174	V	0.663747	0.000935	168.37399	0.651621	168.58830	0.639715
175	E	0.824325	0.000549	166.15373	0.817718	166.26493	0.811210
176	V	0.662807	0.000883	169.02472	0.650736	169.22713	0.638829
177	E	0.823807	0.000518	166.97093	0.817193	167.07561	0.810680
178	V	0.662030	0.000834	169.67462	0.649901	169.86512	0.637994
179	E	0.823319	0.000783	170.32374	0.816699	167.88560	0.810181
180	V	0.661247	0.000783	170.32374	0.816699	170.50233	0.637209
181	E	0.822863	0.000456	168.06386	0.816237	168.69551	0.809714
182	V	0.660514	0.000733	170.97212	0.648382	171.13881	0.636734
183	E	0.822437	0.000426	169.41967	0.815806	169.50479	0.809279
184	V	0.659831	0.000683	171.61982	0.647697	171.77460	0.635790
185	E	0.822042	0.000395	170.23507	0.815406	170.31366	0.808875
186	V	0.659197	0.000634	172.26688	0.647062	172.40975	0.635155
187	E	0.821677	0.000365	171.05011	0.815037	171.12216	0.808502
188	V	0.658612	0.000585	172.91336	0.646477	173.04432	0.634570
189	E	0.821343	0.000334	171.86481	0.814700	171.93032	0.808160
190	V	0.658077	0.000535	173.55930	0.645941	173.67836	0.634034
191	E	0.821040	0.000303	172.67920	0.814333	172.73817	0.807850
192	V	0.657591	0.000486	174.20475	0.645434	174.31121	0.633348
193	E	0.820767	0.000273	173.49332	0.814116	173.54575	0.807571
194	V	0.657154	0.000437	174.84977	0.645017	174.94502	0.633110
195	E	0.820525	0.000242	174.30719	0.813871	174.35307	0.807323
196	V	0.656766	0.000388	175.49440	0.644628	175.57774	0.632722
197	E	0.820313	0.000212	175.12085	0.813656	175.16018	0.807107
198	V	0.656427	0.000339	176.13869	0.644288	176.21012	0.632382
199	E	0.820131	0.000182	175.93432	0.813473	175.96710	0.806921
200	V	0.656136	0.000291	176.78268	0.643997	176.84221	0.632091
201	E	0.819980	0.000151	176.74764	0.813319	176.77386	0.806766
202	V	0.655894	0.000242	177.42644	0.643734	177.47406	0.631848
203	E	0.819859	0.000121	177.56084	0.813197	177.58051	0.806642
204	V	0.655700	0.000194	178.07000	0.643560	178.10571	0.811655
205	E	0.819768	0.000091	178.37394	0.813105	178.38705	0.806550
206	V	0.655555	0.000145	178.71341	0.643415	178.73722	0.631509
207	E	0.819707	0.000061	179.18699	0.813044	179.19354	0.806488
208	V	0.655458	0.000097	179.35673	0.643318	179.36884	0.831412
209	E	0.819677	0.000030	180.00000	0.813013	180.00000	0.806457
210	V	0.655410	0.000048	180.00000	0.643270	180.00000	0.631364

ECCENTRICITY
M

		0.25 1ST DIF.	2ND DIF.	0.26 1ST DIF.	2ND DIF.	0.27 1ST DIF.	2ND DIF.
1	E	1.33329		1.35131		1.36981	
2	V	1.72122		1.76323		1.80670	
3	E	2.66635		2.70235		2.73934	
4	V	3.44182		3.52577		3.61264	
5	E	3.99892	0.000481	4.05287	0.000527	4.10829	0.000578
6	V	5.16118	0.001240	5.28694	0.001375	5.41706	0.001524
7	E	5.33077	0.000719	5.46205	0.000789	5.47637	0.000865
8	V	6.87869	0.001856	7.04269	0.002058	7.21920	0.002280
9	E	6.66167	0.000957	6.75127	0.001049	6.84330	0.001150
10	V	8.59373	0.002466	8.80243	0.002734	9.01830	0.003028
11	E	7.99137	0.001191	8.09864	0.001307	8.20880	0.001432
12	V	10.30570	0.003069	10.55540	0.003402	10.81365	0.003767
13	E	9.31965	0.001424	9.44445	0.001561	9.57259	0.001709
14	V	12.01400	0.003664	12.30432	0.004058	12.60449	0.004493
15	E	10.64628	0.001653	10.78845	0.001811	10.93440	0.001984
16	V	13.71806	0.004249	14.04853	0.004705	14.39014	0.005204
17	E	11.97103	0.001878	12.13039	0.002057	12.29396	0.002251
18	V	15.41730	0.004821	15.78741	0.005335	16.16988	0.005900
19	E	13.29368	0.002099	13.47004	0.002298	13.65100	0.002514
20	V	17.11115	0.005380	17.52033	0.005951	17.94305	0.006577
21	E	14.61402	0.002315	14.80715	0.002534	15.00527	0.002771
22	V	18.79909	0.005924	19.24671	0.006549	19.70898	0.007232
23	E	15.93183	0.002526	16.14149	0.002764	16.35652	0.003020
24	V	20.48056	0.006454	20.96596	0.007128	21.46705	0.007867
25	E	17.24691	0.002732	17.47285	0.002987	17.70451	0.003262
26	V	22.15508	0.006965	22.867751	0.007689	23.61264	0.008478
27	E	18.55905	0.002932	18.80101	0.003203	19.04900	0.003496
28	V	23.82213	0.007458	24.38085	0.008226	24.95717	0.009064
29	E	19.86807	0.003126	20.12575	0.003413	20.38977	0.003722
30	V	25.48125	0.007934	26.07544	0.008742	26.68807	0.009623
1	E	21.17378	0.003314	21.44688	0.003615	21.72660	0.003939
2	V	27.13199	0.008388	27.76079	0.009236	28.40882	0.010156
3	E	22.47599	0.003494	22.76420	0.003809	23.05929	0.004148
4	V	28.77390	0.008822	29.43644	0.009704	30.11890	0.010661
5	E	23.77453	0.003667	24.07752	0.003995	24.38762	0.004347
6	V	30.40657	0.009236	31.10195	0.010148	31.81785	0.011138
7	E	25.06925	0.003834	25.38668	0.004173	25.71142	0.004537
8	V	32.02962	0.009627	32.75688	0.010568	33.50521	0.011585
9	E	26.35996	0.003994	26.69148	0.004343	27.03051	0.004717
10	V	33.64267	0.009997	34.40086	0.010962	35.18057	0.012003
11	E	27.64653	0.004145	27.99179	0.004504	28.34470	0.004888
12	V	35.24538	0.010345	36.03350	0.011331	36.84354	0.012393
13	E	28.92882	0.004290	29.28743	0.004657	29.65385	0.005048
14	V	36.83741	0.010669	37.65447	0.011673	38.49376	0.012751
15	E	30.20667	0.004427	30.57828	0.004801	30.95780	0.005200
16	V	38.41848	0.010973	39.26345	0.011990	40.13089	0.013083
17	E	31.47997	0.004556	31.86419	0.004937	32.25640	0.005340
18	V	39.98829	0.011254	40.86014	0.012283	41.75464	0.013383
19	E	32.74859	0.004677	33.14503	0.005063	33.54954	0.005473
20	V	41.54659	0.011512	42.44429	0.012549	43.36473	0.013657
21	E	34.01242	0.004792	34.42070	0.005182	34.83708	0.005595
22	V	43.09314	0.011749	44.01564	0.012791	44.96093	0.013901
23	E	35.27136	0.004898	35.69107	0.005291	36.11891	0.005707
24	V	44.62772	0.011964	45.57399	0.013009	46.54300	0.014119
25	E	36.52529	0.004997	36.95605	0.005393	37.39493	0.005810
26	V	46.15015	0.012158	47.11914	0.013202	48.11076	0.013763
27	E	37.77414	0.005088	38.21555	0.005486	38.66505	0.005904
28	V	47.66024	0.012332	48.65091	0.013373	49.66405	0.014474
29	E	39.01781	0.005174	39.46947	0.005511	39.92918	0.005989
30	V	49.15785	0.012484	50.16916	0.013521	51.20272	0.014615

ECCENTRICITY		1st DIF.		2ND DIF.		1st DIF.		2ND DIF.		1st DIF.		2ND DIF.	
M	E	1st DIF.		2ND DIF.		1st DIF.		2ND DIF.		1st DIF.		2ND DIF.	
		0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36
31	E	40.25623	1.238423	0.005250	40.71774	1.248275	0.005648	41.18724	1.258063	0.006066	41.63484	1.267851	0.006484
31	V	50.64285	1.484993	0.012618	51.67376	1.504604	0.013647	52.72667	1.523944	0.014730	53.80158	1.542732	0.015812
32	E	41.48934	1.233103	0.005320	41.96030	1.242557	0.005718	42.43917	1.251930	0.006133	42.91804	1.261303	0.006548
32	V	52.11511	1.472261	0.012732	53.16462	1.490852	0.013752	54.23579	1.509121	0.014823	55.31096	1.527890	0.015944
33	E	42.71705	1.227719	0.005384	43.19708	1.236777	0.005780	43.68491	1.245737	0.006193	44.17278	1.254700	0.006608
33	V	53.57454	1.459432	0.012829	54.64163	1.477015	0.013837	55.73002	1.494227	0.014894	56.81454	1.511015	0.016000
34	E	43.93933	1.222278	0.005441	44.42802	1.230943	0.005834	44.92440	1.239492	0.006245	45.42087	1.248041	0.006651
34	V	55.02107	1.446526	0.012906	56.10474	1.463113	0.013902	57.20930	1.479285	0.014942	58.31487	1.495458	0.016050
35	E	45.15612	1.216787	0.005491	45.65308	1.225061	0.005882	46.15760	1.233204	0.006288	46.66107	1.241352	0.006699
35	V	56.45462	1.433558	0.012968	57.53391	1.449163	0.013950	58.67361	1.464313	0.014972	59.81832	1.479460	0.016149
36	E	46.36737	1.211252	0.005535	46.87222	1.219138	0.005923	47.38448	1.226819	0.006325	47.89585	1.234510	0.006730
36	V	57.87517	1.420545	0.013013	58.98909	1.435185	0.013978	60.12294	1.449331	0.014982	61.26841	1.464481	0.016191
37	E	47.57305	1.205678	0.005574	48.08540	1.213182	0.005956	48.60501	1.220525	0.006354	49.12552	1.227872	0.006755
37	V	59.28267	1.407503	0.013042	60.41029	1.421195	0.013990	61.55730	1.434358	0.014973	62.70181	1.449504	0.016240
38	E	48.77312	1.200073	0.005605	49.29260	1.207197	0.005985	49.81916	1.214148	0.006377	50.34663	1.221199	0.006800
38	V	60.67712	1.394447	0.013056	61.81750	1.407208	0.013987	62.97671	1.419409	0.014949	64.08121	1.434560	0.016281
39	E	49.96756	1.194442	0.005631	50.49379	1.201191	0.006006	51.02691	1.207755	0.006393	51.56002	1.214304	0.006825
39	V	62.05851	1.381390	0.013057	63.21074	1.393240	0.013968	64.38121	1.404501	0.014908	65.49582	1.419651	0.016311
40	E	51.15635	1.188789	0.005653	51.68896	1.195168	0.006023	52.22826	1.201353	0.006402	52.77573	1.208204	0.006845
40	V	63.42686	1.368347	0.013043	64.59004	1.379305	0.013935	65.77086	1.389650	0.014851	67.06141	1.404701	0.016281
41	E	52.33947	1.183121	0.005668	52.87809	1.189136	0.006032	53.42321	1.194946	0.006407	53.97072	1.200751	0.006850
41	V	64.78219	1.353329	0.013018	65.95546	1.365416	0.013889	67.14573	1.374868	0.014782	68.26054	1.389919	0.016281
42	E	53.51692	1.177442	0.005679	54.06119	1.183099	0.006037	54.61175	1.188541	0.006405	55.16246	1.193692	0.006850
42	V	66.12453	1.342349	0.012980	67.30704	1.351587	0.013829	68.50590	1.360169	0.014699	69.70081	1.368820	0.016281
43	E	54.68867	1.171757	0.005685	55.23825	1.177061	0.006038	55.79389	1.182143	0.006398	56.34540	1.187294	0.006850
43	V	67.45395	1.329418	0.012931	68.64487	1.337828	0.013759	69.85146	1.345565	0.014604	71.06101	1.353711	0.016281
44	E	55.85474	1.166070	0.005687	56.40928	1.171029	0.006032	56.96965	1.175758	0.006385	57.52016	1.180489	0.006850
44	V	68.77050	1.316546	0.012872	69.96902	1.324150	0.013678	71.18253	1.331067	0.014498	72.37704	1.338219	0.016281
45	E	57.01513	1.160387	0.005683	57.57429	1.165006	0.006023	58.13904	1.169389	0.006369	58.69055	1.174700	0.006850
45	V	70.07424	1.303744	0.012802	71.27958	1.310564	0.013586	72.49922	1.316686	0.014331	73.71403	1.322811	0.016281
46	E	58.16984	1.154711	0.005676	58.73328	1.158996	0.006010	59.30208	1.163041	0.006348	59.85359	1.167912	0.006850
46	V	71.36526	1.291019	0.012725	72.57666	1.297078	0.013486	73.80165	1.302430	0.014256	74.99616	1.310581	0.016281
47	E	59.31889	1.149045	0.005666	59.88629	1.153005	0.005991	60.44580	1.156718	0.006323	61.00731	1.160429	0.006850
47	V	72.64364	1.278382	0.012637	73.86036	1.283702	0.013376	75.08996	1.288308	0.014122	76.29447	1.293039	0.016281
48	E	60.46228	1.143394	0.005651	61.03332	1.147035	0.005970	61.60923	1.150425	0.006293	62.17074	1.153316	0.006850
48	V	73.90948	1.265840	0.012542	75.13081	1.270443	0.013259	76.36428	1.274328	0.013980	77.54979	1.281439	0.016281
49	E	61.60004	1.137762	0.005632	62.17441	1.141090	0.005945	62.75339	1.144165	0.006260	63.34290	1.147246	0.006850
49	V	75.16288	1.253399	0.012441	76.38812	1.257308	0.013135	77.62478	1.260497	0.013831	78.84029	1.267608	0.016281
50	E	62.73219	1.132151	0.005611	63.30959	1.135174	0.005916	63.89133	1.137941	0.006224	64.47304	1.140129	0.006850
50	V	76.40395	1.241067	0.012332	77.63242	1.244305	0.013003	78.87160	1.246821	0.013676	80.06611	1.253737	0.016281
51	E	63.85876	1.126565	0.005586	64.43888	1.129289	0.005885	65.02309	1.131757	0.006184	65.59460	1.134630	0.006850
51	V	77.63280	1.228849	0.012218	78.86386	1.231438	0.012867	80.10491	1.233306	0.013515	81.28012	1.235226	0.016281
52	E	64.97976	1.121006	0.005559	65.56231	1.123440	0.005849	66.14870	1.125615	0.006142	66.73021	1.127736	0.006850
52	V	78.84955	1.216752	0.012097	80.08257	1.218713	0.012725	81.32486	1.219956	0.013350	82.51017	1.221827	0.016281
53	E	66.09524	1.115477	0.005529	66.67994	1.117627	0.005813	67.26822	1.119519	0.006096	67.84973	1.121430	0.006850
53	V	80.05433	1.204781	0.011971	81.28871	1.206136	0.012577	82.53164	1.206777	0.013179	83.71695	1.207428	0.016281
54	E	67.20522	1.109982	0.005495	67.79180	1.111855	0.005772	68.38169	1.113470	0.006049	68.97320	1.115091	0.006850
54	V	81.24727	1.192939	0.011842	82.48242	1.193710	0.012426	83.72541	1.193772	0.013005	84.91072	1.194483	0.016281
55	E	68.30974	1.104521	0.005461	68.89792	1.106126	0.005729	69.48496	1.107471	0.005999	70.07747	1.108822	0.006850
55	V	82.42850	1.181231	0.011708	83.66386	1.181438	0.012272	84.90635	1.180943	0.012829	86.08166	1.181430	0.016281
56	E	69.40884	1.099099	0.005422	69.99836	1.100440	0.005686	70.59069	1.101524	0.005947	71.18300	1.102608	0.006850
56	V	83.59816	1.169660	0.011571	84.83318	1.169325	0.012113	86.07465	1.168295	0.012668	87.26016	1.167376	0.016281
57	E	70.50256	1.093715	0.005384	71.09317	1.094802	0.005638	71.68632	1.095632	0.005892	72.29083	1.096463	0.006850
57	V	84.75639	1.158231	0.011429	85.99055	1.157372	0.011953	87.23048	1.155859	0.012466	88.38169	1.154487	0.016281
58	E	71.59093	1.088374	0.005341	72.18238	1.089212	0.005590	72.77611	1.089795	0.005837	73.37082	1.090376	0.006850
58	V	85.90334	1.146945	0.011286	87.13614	1.145583	0.011789	88.37403	1.143547	0.012282	89.56013	1.141451	0.016281
59	E	72.67401	1.083075	0.005299	73.26605	1.083672	0.005540	73.86013	1.084016	0.005779	74.45524	1.084367	0.006850
59	V	87.03914	1.135605	0.011140	88.27010	1.133960	0.011623	89.50548	1.131451	0.012096	90.69079	1.129443	0.016281
60	E	73.75183	1.077822	0.005253	74.34423	1.078184	0.005488	74.93843	1.078296	0.005720	75.53254	1.078407	0.006850
60	V	88.16396	1.124813	0.010992	89.39260	1.122503	0.011457	90.62502	1.119541	0.011910	91.81013	1.117452	0.016281

ECCENTRICITY M		0.25		0.26		0.27	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
61	E	74.82444	0.05207	1.072615	0.005207	1.072749	0.005435
	V	89.27793	0.010841	1.113972	0.010841	1.111215	0.011288
62	E	75.89190	0.007456	1.067456	0.005159	1.067368	0.005381
	V	90.38121	0.010691	1.103281	0.010691	1.100095	0.011120
63	E	76.95425	0.005110	1.062346	0.005110	1.062043	0.005325
	V	91.47395	0.010538	1.092747	0.010538	1.089146	0.010949
64	E	78.01153	0.005060	1.057286	0.005060	1.056774	0.005269
	V	92.55631	0.010384	1.082359	0.010384	1.078367	0.010779
65	E	79.06381	0.005009	1.052277	0.005009	1.051564	0.005210
	V	93.62844	0.010230	1.072129	0.010230	1.067759	0.010608
66	E	80.11113	0.004956	1.047321	0.004956	1.046411	0.005153
	V	94.69049	0.010076	1.062053	0.010076	1.057320	0.010439
67	E	81.15355	0.004903	1.042418	0.004903	1.041317	0.005094
	V	95.74263	0.009921	1.052132	0.009921	1.047052	0.010268
68	E	82.19112	0.004850	1.037568	0.004850	1.036283	0.005034
	V	96.78499	0.009767	1.042365	0.009767	1.036953	0.010099
69	E	83.22389	0.004795	1.032773	0.004795	1.031310	0.004973
	V	97.81774	0.009612	1.032753	0.009612	1.027023	0.009930
70	E	84.25192	0.004740	1.028033	0.004740	1.026397	0.004913
	V	98.84104	0.009458	1.023295	0.009458	1.017261	0.009762
71	E	85.27527	0.004684	1.023349	0.004684	1.021545	0.004852
	V	99.85503	0.009305	1.021390	0.009305	1.007666	0.009595
72	E	86.29399	0.004629	1.018720	0.004629	1.016754	0.004791
	V	100.85987	0.009152	1.004838	0.009152	1.001204	0.009430
73	E	87.30814	0.004572	1.014148	0.004572	1.012024	0.004730
	V	101.85570	0.009099	1.009632	0.009099	1.007357	0.009264
74	E	88.31777	0.004516	1.009632	0.004516	1.007357	0.009264
	V	102.84269	0.008849	1.006990	0.008849	1.004606	0.009102
75	E	89.32294	0.004459	1.005173	0.004459	1.002751	0.004606
	V	103.82099	0.008698	1.002822	0.008698	1.000930	0.008940
76	E	90.32372	0.004402	1.000771	0.004402	1.000930	0.008940
	V	104.79073	0.008550	1.000771	0.008550	0.998206	0.008781
77	E	91.32014	0.004344	0.996427	0.004344	0.993328	0.008621
	V	105.75207	0.008402	0.996130	0.008402	0.993328	0.008621
78	E	92.51228	0.004288	0.992139	0.004288	0.989303	0.008421
	V	106.70515	0.008256	0.993084	0.008256	0.985063	0.008465
79	E	93.30019	0.004230	0.987909	0.004230	0.984944	0.008359
	V	107.65013	0.008110	0.984974	0.008110	0.983171	0.008311
80	E	94.28393	0.004174	0.983755	0.004174	0.980846	0.008298
	V	108.58713	0.007967	0.983700	0.007967	0.977402	0.008232
81	E	95.26354	0.004116	0.979619	0.004116	0.976410	0.008236
	V	109.51631	0.007825	0.979182	0.007825	0.973050	0.008171
82	E	96.23910	0.004059	0.975560	0.004059	0.972234	0.008176
	V	110.43781	0.007685	0.972147	0.007685	0.968120	0.008114
83	E	97.21066	0.004002	0.971558	0.004002	0.968120	0.008114
	V	111.35176	0.007545	0.971395	0.007545	0.964543	0.008042
84	E	98.17827	0.003966	0.967612	0.003966	0.964543	0.008042
	V	112.52831	0.007409	0.965543	0.007409	0.963050	0.007959
85	E	99.114200	0.003889	0.963723	0.003889	0.962242	0.007859
	V	113.15758	0.009271	0.962272	0.009271	0.959532	0.007705
86	E	100.10189	0.003833	0.959890	0.003833	0.956137	0.007647
	V	114.04971	0.009213	0.959890	0.009213	0.952263	0.007554
87	E	101.05800	0.003777	0.956113	0.003777	0.952263	0.007554
	V	114.93484	0.009125	0.956113	0.009125	0.948447	0.007466
88	E	102.01039	0.003721	0.952392	0.003721	0.948447	0.007466
	V	115.81308	0.009077	0.952392	0.009077	0.944390	0.007390
89	E	102.95912	0.003665	0.948727	0.003665	0.944390	0.007390
	V	116.68459	0.009150	0.948727	0.009150	0.940992	0.007260
90	E	103.90423	0.003611	0.945116	0.003611	0.940992	0.007260
	V	117.54947	0.009062	0.945116	0.009062	0.936767	0.007115
	V					0.936767	0.006975
	V					0.936767	0.006835

ECCENTRICITY M		0.25			0.26			0.27		
		1ST DIF.	2ND DIF.		1ST DIF.	2ND DIF.		1ST DIF.	2ND DIF.	
121	E	131.69555	0.858451	132.06009	0.852709	0.002124	132.42013	0.846990	0.002150	
122	V	141.69152	0.713588	142.36376	0.702106	0.003503	143.03783	0.690748	0.003512	
123	V	132.55194	0.856398	132.91072	0.850627	0.002082	133.28502	0.844884	0.002106	
124	V	142.40165	0.710128	143.06845	0.698683	0.003423	143.72510	0.687318	0.003430	
125	E	133.40633	0.854386	133.75931	0.848589	0.002038	134.10784	0.842822	0.002062	
126	V	143.10845	0.706796	143.76378	0.695338	0.003345	144.40911	0.683967	0.003351	
127	E	134.25874	0.852546	134.60590	0.846593	0.001996	134.94864	0.840803	0.002019	
128	V	143.81199	0.703540	144.45586	0.692072	0.003266	145.08981	0.680695	0.003272	
129	E	135.10923	0.850487	135.45054	0.844640	0.001953	135.78747	0.838828	0.001975	
130	V	144.51235	0.700359	145.14774	0.688881	0.003191	145.76731	0.677500	0.003195	
131	E	135.95783	0.848959	136.29327	0.842728	0.001912	136.62437	0.836895	0.001933	
132	V	145.20960	0.697253	145.83050	0.685766	0.003115	146.44169	0.674381	0.003119	
133	E	136.80458	0.846751	137.13413	0.840858	0.001870	137.45937	0.835005	0.001890	
134	V	145.90382	0.694220	146.51323	0.682726	0.003040	147.11303	0.671338	0.003043	
135	E	137.64952	0.844944	137.97316	0.839028	0.001830	138.29253	0.833156	0.001849	
136	V	146.59508	0.691260	147.19299	0.679758	0.002968	147.78139	0.668368	0.002970	
137	E	138.49270	0.843176	138.81040	0.837240	0.001788	139.12387	0.831348	0.001808	
138	V	147.28345	0.688371	147.86585	0.676863	0.002895	148.44687	0.665472	0.002896	
139	E	139.53415	0.841448	139.64589	0.835491	0.001749	139.95346	0.829582	0.001766	
140	V	147.96900	0.685552	148.54389	0.674039	0.002824	149.10951	0.662647	0.002825	
141	E	140.17391	0.839759	140.47967	0.833783	0.001708	140.78131	0.827857	0.001725	
142	V	148.65180	0.682803	149.21518	0.671286	0.002753	149.76941	0.659893	0.002754	
143	E	141.01202	0.838109	141.31179	0.832114	0.001669	141.60748	0.826171	0.001686	
144	V	149.33193	0.680122	149.88378	0.668601	0.002685	150.42662	0.657209	0.002684	
145	E	141.84851	0.836498	142.14227	0.830485	0.001629	142.43201	0.824526	0.001645	
146	V	150.00944	0.677509	150.54976	0.665985	0.002616	151.08121	0.654594	0.002615	
147	E	142.68344	0.834924	142.97116	0.828894	0.001591	143.25493	0.822920	0.001606	
148	V	150.68440	0.674963	151.21320	0.663437	0.002548	151.73326	0.652047	0.002547	
149	E	143.51683	0.833389	143.79851	0.827342	0.001552	144.07628	0.821353	0.001567	
150	V	151.35688	0.672483	151.87415	0.660955	0.002482	152.38282	0.649566	0.002481	
151	E	144.34872	0.831891	144.62434	0.825829	0.001513	144.89611	0.819826	0.001527	
152	V	152.02695	0.670068	152.53269	0.658538	0.002417	153.02998	0.647152	0.002414	
153	E	145.17915	0.830431	145.44869	0.824353	0.001476	145.71445	0.818337	0.001489	
154	V	152.69467	0.667718	153.18888	0.656187	0.002351	153.67478	0.644803	0.002349	
155	E	146.00816	0.829008	146.27160	0.822915	0.001438	146.53133	0.816886	0.001451	
156	V	153.36010	0.665431	153.84278	0.653900	0.002287	154.31730	0.642519	0.002284	
157	E	146.83578	0.827622	147.09312	0.821514	0.001401	147.34681	0.815473	0.001413	
158	V	154.02331	0.663208	154.49446	0.651676	0.002224	154.95760	0.640298	0.002221	
159	E	147.66205	0.826272	147.91327	0.820151	0.001363	148.16090	0.814097	0.001376	
160	V	154.68435	0.661046	155.14397	0.649514	0.002162	155.59574	0.638140	0.002158	
161	E	148.48701	0.824958	148.73209	0.818824	0.001327	148.97366	0.812759	0.001338	
162	V	155.34330	0.658946	155.79138	0.647415	0.002099	156.23178	0.636044	0.002096	
163	E	149.31069	0.823681	149.54963	0.817534	0.001290	149.78512	0.811458	0.001301	
164	V	156.00021	0.656907	156.43676	0.645377	0.002038	156.86579	0.634010	0.002034	
165	E	150.13313	0.822439	150.36591	0.816281	0.001253	150.59531	0.810194	0.001264	
166	V	156.65513	0.654928	157.08016	0.643399	0.001978	157.49783	0.632036	0.001974	
167	E	150.95436	0.821233	151.18097	0.815063	0.001218	151.40428	0.808967	0.001227	
168	V	157.30814	0.653008	157.72164	0.641481	0.001918	158.12795	0.630122	0.001914	
169	E	151.77443	0.820062	151.99485	0.813881	0.001182	152.21206	0.807775	0.001192	
170	V	157.95929	0.651148	158.36126	0.639622	0.001859	158.75622	0.628267	0.001855	
171	E	152.59335	0.818927	152.80759	0.812735	0.001146	153.01868	0.806620	0.001155	
172	V	158.60863	0.649345	158.99308	0.637821	0.001801	159.38269	0.626471	0.001796	
173	E	153.41118	0.817826	153.61921	0.811624	0.001111	153.82418	0.805500	0.001120	
174	V	159.25624	0.647601	159.63516	0.636079	0.001742	160.00742	0.624733	0.001738	
175	E	154.22794	0.816760	154.42976	0.810548	0.001076	154.62859	0.804416	0.001084	
176	V	159.90215	0.645913	160.26956	0.634393	0.001686	160.63047	0.623052	0.001681	
177	E	155.04366	0.815728	155.23927	0.809507	0.001041	155.43196	0.803367	0.001049	
178	V	160.54643	0.644283	160.90327	0.632765	0.001628	161.25190	0.621428	0.001624	
179	E	155.85839	0.814731	156.04777	0.808501	0.001006	156.23431	0.802353	0.001014	
180	V	161.18914	0.642708	161.53351	0.631193	0.001572	161.87176	0.619861	0.001567	

ECCENTRICITY		$1\Omega^{25}$	2ND DIF.	$1\Omega^{26}$	2ND DIF.	$1\Omega^{27}$	2ND DIF.
151	E	156.67216	0.813767	156.85530	0.807529	157.03568	0.801374
	V	161.83033	0.641189	162.16319	0.629676	162.49011	0.618349
152	E	157.48500	0.812838	157.66189	0.800929	157.83611	0.800429
	V	162.47005	0.639725	162.79140	0.628215	163.10700	0.616892
153	E	158.29694	0.811942	158.46758	0.800896	158.63563	0.799519
	V	163.10837	0.638316	163.41821	0.626808	163.72249	0.615490
154	E	159.10802	0.811079	159.27239	0.804818	159.43428	0.798643
	V	163.74533	0.636961	164.04367	0.625456	164.33663	0.614142
155	E	159.91827	0.810251	160.07638	0.803982	160.23208	0.797801
	V	164.38099	0.633569	164.66783	0.624157	164.94948	0.612848
156	E	160.72773	0.809455	160.87955	0.803180	161.02907	0.796993
	V	165.01540	0.634411	165.29074	0.622912	165.56109	0.611607
157	E	161.53642	0.808692	161.68197	0.802411	161.82529	0.796219
	V	165.64861	0.633216	165.91246	0.621720	166.17151	0.610419
158	E	162.34438	0.807962	162.48364	0.801675	162.62077	0.795478
	V	166.28069	0.632074	166.53304	0.620580	166.78079	0.609284
159	E	163.15165	0.807265	163.28461	0.800972	163.41554	0.794770
	V	166.91167	0.630984	167.15253	0.619492	167.38899	0.608200
160	E	163.95825	0.806601	164.08492	0.800302	164.20963	0.794096
	V	167.54162	0.629945	167.77099	0.618457	167.99616	0.607168
161	E	164.76422	0.805969	164.88458	0.799665	165.00309	0.793455
	V	168.17058	0.628958	168.38846	0.617472	168.60235	0.606188
162	E	165.56958	0.805369	165.68364	0.799061	165.79593	0.792846
	V	168.79860	0.628023	169.00500	0.616539	169.20761	0.605259
163	E	166.37439	0.804802	166.48213	0.798489	166.58821	0.792270
	V	169.42574	0.627138	169.62066	0.615657	169.81199	0.604380
164	E	167.17865	0.804266	167.28008	0.797949	167.37993	0.791727
	V	170.05204	0.626304	170.23548	0.614826	170.41554	0.603552
165	E	167.98242	0.803763	168.07752	0.797442	168.17115	0.791217
	V	170.67756	0.625521	170.84952	0.614044	171.01831	0.602774
166	E	168.78571	0.803292	168.87449	0.796967	168.96109	0.790739
	V	171.30235	0.624787	171.46284	0.613313	171.62036	0.602046
167	E	169.58856	0.802852	169.67101	0.796524	169.75218	0.790293
	V	171.92645	0.624104	172.07547	0.612632	172.22173	0.601367
168	E	170.39100	0.802444	170.46713	0.796114	170.54206	0.789880
	V	172.54992	0.623470	172.66874	0.612000	172.82247	0.600738
169	E	171.19307	0.802068	171.26286	0.795735	171.33156	0.789498
	V	173.17281	0.622886	173.29889	0.611417	173.42262	0.600158
170	E	171.99480	0.801724	172.05825	0.795388	172.12071	0.789149
	V	173.79516	0.622351	173.90977	0.610884	174.02225	0.599627
171	E	172.79621	0.801411	172.85332	0.795072	172.90954	0.788832
	V	174.41703	0.621865	174.52017	0.610400	174.62140	0.599145
172	E	173.59734	0.801129	173.64811	0.794789	173.69809	0.788546
	V	175.03845	0.621428	175.13013	0.609964	175.22011	0.598712
173	E	174.39822	0.800879	174.44265	0.794537	174.48638	0.788293
	V	175.65949	0.621040	175.73971	0.609578	175.81844	0.598327
174	E	175.19888	0.800661	175.23696	0.794316	175.27445	0.788071
	V	176.28020	0.620701	176.34895	0.609240	176.41643	0.597991
175	E	175.99935	0.800473	176.03109	0.794128	176.06233	0.787881
	V	176.90061	0.620411	176.95790	0.608950	177.01413	0.597702
176	E	176.79967	0.800317	176.82506	0.793970	176.85006	0.787723
	V	177.52077	0.620169	177.56661	0.608709	177.61159	0.597462
177	E	177.59986	0.800192	177.61891	0.793845	177.63765	0.787597
	V	178.14075	0.619975	178.17513	0.608516	178.20866	0.597270
178	E	178.39996	0.800099	178.41266	0.793750	178.42515	0.787502
	V	178.76058	0.619830	178.78330	0.608372	178.80599	0.597126
179	E	179.20000	0.800036	179.20634	0.793687	179.21259	0.787438
	V	179.38032	0.619734	179.39177	0.608275	179.40302	0.597031
180	E	180.00000	0.800005	180.00000	0.793656	180.00000	0.787407
	V	180.00000	0.619685	180.00000	0.608227	180.00000	0.596983

ECCENTRICITY
M

		0.28 1ST DIF.	2ND DIF.	0.29 1ST DIF.	2ND DIF.	0.30 1ST DIF.	2ND DIF.
1	E	1.38884		1.40839		1.42851	
2	V	1.85171		1.89833		1.94664	
3	E	2.77735		2.81644		2.85664	
4	V	3.70258		3.79572		3.89225	
5	E	4.16524	0.000634	4.22379	0.000693	4.28400	0.000760
6	V	5.55175	0.001688	5.69125	0.001869	5.83578	0.002069
7	E	6.96411	0.000947	7.13838	0.001038	7.27623	0.001136
8	V	8.35841	0.002525	8.53958	0.002790	8.71024	0.003092
9	E	9.73986	0.001260	9.93504	0.001379	10.13496	0.001508
10	V	11.11830	0.003352	11.32300	0.003710	11.52842	0.004103
11	E	12.50170	0.001568	12.71020	0.001716	12.91877	0.001877
12	V	13.88410	0.004169	14.09326	0.004461	14.30242	0.005098
13	E	15.26644	0.001871	15.47611	0.002047	15.68581	0.002239
14	V	16.64974	0.004970	16.86044	0.005495	17.07119	0.006073
15	E	18.03300	0.002170	18.24477	0.002373	18.45552	0.002594
16	V	19.41625	0.005754	19.62700	0.006358	19.83775	0.007023
17	E	20.80000	0.002463	21.01075	0.002692	21.22150	0.002940
18	V	22.18375	0.006520	22.39450	0.007200	22.60525	0.007947
19	E	23.56750	0.002748	23.77825	0.003002	23.98900	0.003278
20	V	24.95125	0.007262	25.16200	0.008034	25.37275	0.008839
21	E	26.33500	0.003027	26.54575	0.003305	26.75650	0.003600
22	V	27.71875	0.007981	27.92950	0.008802	28.14025	0.009700
23	E	29.10250	0.003298	29.31325	0.003598	29.52400	0.003923
24	V	30.48625	0.008675	30.69700	0.009557	30.90775	0.010524
25	E	31.87000	0.003559	32.08175	0.003880	32.29250	0.004228
26	V	33.25375	0.009340	33.46450	0.010282	33.67525	0.011311
27	E	34.63750	0.003812	34.84825	0.004153	35.05900	0.004521
28	V	36.02125	0.009976	36.23200	0.010972	36.44275	0.012057
29	E	37.40500	0.004055	37.61575	0.004415	37.82650	0.004802
30	V	38.78875	0.010583	39.00000	0.011627	39.21075	0.012763
31	E	40.17250	0.004289	40.38325	0.004665	40.59400	0.005070
32	V	41.55625	0.011157	41.76700	0.009089	41.97775	0.013427
33	E	42.94000	0.004512	43.15075	0.004186	43.36150	0.005323
34	V	44.32375	0.011699	44.53450	0.012825	44.74525	0.014046
35	E	45.70750	0.004724	45.91825	0.005129	46.12900	0.005564
36	V	47.09125	0.012209	47.30200	0.013368	47.51275	0.014622
37	E	48.47500	0.004927	48.68575	0.005344	48.89650	0.005790
38	V	49.85875	0.012684	50.06950	0.013872	50.28025	0.015155
39	E	51.24250	0.005117	51.45325	0.005545	51.66400	0.006002
40	V	52.62625	0.013127	52.83700	0.014338	53.04775	0.015641
41	E	54.01000	0.005297	54.22075	0.005733	54.43150	0.006200
42	V	55.39375	0.013535	55.60450	0.014764	55.81525	0.016086
43	E	56.77750	0.005465	56.98825	0.005911	57.20000	0.006384
44	V	58.16125	0.013911	58.37200	0.015154	58.58275	0.016486
45	E	59.54500	0.005624	59.75575	0.006074	59.96650	0.006554
46	V	60.92875	0.014252	61.13950	0.015504	61.35025	0.016843
47	E	62.31250	0.005770	62.52325	0.006227	62.73400	0.006709
48	V	63.69625	0.014561	63.90700	0.015818	64.11775	0.017159
49	E	65.08000	0.005907	65.29075	0.006365	65.50150	0.006852
50	V	66.46375	0.014837	66.67450	0.016056	66.88525	0.017435
51	E	67.84750	0.006031	68.05825	0.006494	68.26900	0.006981
52	V	69.23125	0.015083	69.44200	0.016338	69.65275	0.017671
53	E	70.61500	0.006146	70.82575	0.006609	71.03650	0.007097
54	V	71.99875	0.015298	72.20950	0.016547	72.42025	0.017868
55	E	73.38250	0.006250	73.59325	0.006713	73.80400	0.007199
56	V	74.76625	0.015482	74.97700	0.017222	75.18775	0.018030
57	E	76.15000	0.006344	76.36075	0.006806	76.57150	0.007291
58	V	77.53375	0.015638	77.74450	0.016855	77.95525	0.018157
59	E	78.91750	0.006429	79.12825	0.006888	79.33900	0.007369
60	V	80.30125	0.015767	80.51200	0.016978	80.72275	0.018250

ECCENTRICITY M		1st DIF.				2ND DIF.				1st DIF.				2ND DIF.				1st DIF.				2ND DIF.				1st DIF.				2ND DIF.			
		1st DIF.				2ND DIF.				1st DIF.				2ND DIF.				1st DIF.				2ND DIF.				1st DIF.				2ND DIF.			
31	E	41.66481	1.26773	1.542962	0.006502	0.0015868	0.0007437	0.0018311	0.0007437	42.15053	1.277389	1.561605	0.007021	0.0017063	0.0007437	42.64445	1.286894	42.64445	1.286894	42.64445	1.286894	42.64445	1.286894	42.64445	1.286894	42.64445	1.286894	42.64445	1.286894	42.64445	1.286894	42.64445	1.286894
32	E	42.92602	1.261205	1.261205	0.006568	0.0007437	0.0007437	0.0007437	0.0007437	43.42089	1.270368	1.564487	0.007021	0.0017063	0.0007437	43.42089	1.270368	43.42089	1.270368	43.42089	1.270368	43.42089	1.270368	43.42089	1.270368	43.42089	1.270368	43.42089	1.270368	43.42089	1.270368	43.42089	1.270368
33	E	44.18060	1.254581	1.254581	0.006624	0.0007437	0.0007437	0.0007437	0.0007437	44.68419	1.263295	1.564487	0.007021	0.0017063	0.0007437	44.68419	1.263295	44.68419	1.263295	44.68419	1.263295	44.68419	1.263295	44.68419	1.263295	44.68419	1.263295	44.68419	1.263295	44.68419	1.263295	44.68419	1.263295
34	E	45.42851	1.247910	1.247910	0.006671	0.0007437	0.0007437	0.0007437	0.0007437	45.94037	1.252618	1.564487	0.007021	0.0017063	0.0007437	45.94037	1.252618	45.94037	1.252618	45.94037	1.252618	45.94037	1.252618	45.94037	1.252618	45.94037	1.252618	45.94037	1.252618	45.94037	1.252618	45.94037	1.252618
35	E	46.66971	1.241200	1.241200	0.006710	0.0007437	0.0007437	0.0007437	0.0007437	47.18940	1.249033	1.564487	0.007021	0.0017063	0.0007437	47.18940	1.249033	47.18940	1.249033	47.18940	1.249033	47.18940	1.249033	47.18940	1.249033	47.18940	1.249033	47.18940	1.249033	47.18940	1.249033	47.18940	1.249033
36	E	47.90417	1.234458	1.234458	0.006742	0.0007437	0.0007437	0.0007437	0.0007437	48.43126	1.241860	1.564487	0.007021	0.0017063	0.0007437	48.43126	1.241860	48.43126	1.241860	48.43126	1.241860	48.43126	1.241860	48.43126	1.241860	48.43126	1.241860	48.43126	1.241860	48.43126	1.241860	48.43126	1.241860
37	E	49.13186	1.227693	1.227693	0.006765	0.0007437	0.0007437	0.0007437	0.0007437	49.66593	1.234671	1.564487	0.007021	0.0017063	0.0007437	49.66593	1.234671	49.66593	1.234671	49.66593	1.234671	49.66593	1.234671	49.66593	1.234671	49.66593	1.234671	49.66593	1.234671	49.66593	1.234671	49.66593	1.234671
38	E	50.35277	1.220912	1.220912	0.006781	0.0007437	0.0007437	0.0007437	0.0007437	50.89341	1.227473	1.564487	0.007021	0.0017063	0.0007437	50.89341	1.227473	50.89341	1.227473	50.89341	1.227473	50.89341	1.227473	50.89341	1.227473	50.89341	1.227473	50.89341	1.227473	50.89341	1.227473	50.89341	1.227473
39	E	51.56689	1.214121	1.214121	0.006791	0.0007437	0.0007437	0.0007437	0.0007437	52.11368	1.220247	1.564487	0.007021	0.0017063	0.0007437	52.11368	1.220247	52.11368	1.220247	52.11368	1.220247	52.11368	1.220247	52.11368	1.220247	52.11368	1.220247	52.11368	1.220247	52.11368	1.220247	52.11368	1.220247
40	E	52.77422	1.207328	1.207328	0.006793	0.0007437	0.0007437	0.0007437	0.0007437	53.32676	1.213080	1.564487	0.007021	0.0017063	0.0007437	53.32676	1.213080	53.32676	1.213080	53.32676	1.213080	53.32676	1.213080	53.32676	1.213080	53.32676	1.213080	53.32676	1.213080	53.32676	1.213080	53.32676	1.213080
41	E	53.97476	1.200538	1.200538	0.006790	0.0007437	0.0007437	0.0007437	0.0007437	54.53266	1.205898	1.564487	0.007021	0.0017063	0.0007437	54.53266	1.205898	54.53266	1.205898	54.53266	1.205898	54.53266	1.205898	54.53266	1.205898	54.53266	1.205898	54.53266	1.205898	54.53266	1.205898	54.53266	1.205898
42	E	55.16851	1.193757	1.193757	0.006781	0.0007437	0.0007437	0.0007437	0.0007437	55.73139	1.198734	1.564487	0.007021	0.0017063	0.0007437	55.73139	1.198734	55.73139	1.198734	55.73139	1.198734	55.73139	1.198734	55.73139	1.198734	55.73139	1.198734	55.73139	1.198734	55.73139	1.198734	55.73139	1.198734
43	E	56.35551	1.186992	1.186992	0.006765	0.0007437	0.0007437	0.0007437	0.0007437	56.92299	1.191593	1.564487	0.007021	0.0017063	0.0007437	56.92299	1.191593	56.92299	1.191593	56.92299	1.191593	56.92299	1.191593	56.92299	1.191593	56.92299	1.191593	56.92299	1.191593	56.92299	1.191593	56.92299	1.191593
44	E	57.53575	1.180246	1.180246	0.006746	0.0007437	0.0007437	0.0007437	0.0007437	58.10747	1.184482	1.564487	0.007021	0.0017063	0.0007437	58.10747	1.184482	58.10747	1.184482	58.10747	1.184482	58.10747	1.184482	58.10747	1.184482	58.10747	1.184482	58.10747	1.184482	58.10747	1.184482	58.10747	1.184482
45	E	58.70928	1.173525	1.173525	0.006721	0.0007437	0.0007437	0.0007437	0.0007437	59.28487	1.177405	1.564487	0.007021	0.0017063	0.0007437	59.28487	1.177405	59.28487	1.177405	59.28487	1.177405	59.28487	1.177405	59.28487	1.177405	59.28487	1.177405	59.28487	1.177405	59.28487	1.177405	59.28487	1.177405
46	E	59.87611	1.166834	1.166834	0.006691	0.0007437	0.0007437	0.0007437	0.0007437	60.45524	1.170366	1.564487	0.007021	0.0017063	0.0007437	60.45524	1.170366	60.45524	1.170366	60.45524	1.170366	60.45524	1.170366	60.45524	1.170366	60.45524	1.170366	60.45524	1.170366	60.45524	1.170366	60.45524	1.170366
47	E	61.03629	1.160177	1.160177	0.006657	0.0007437	0.0007437	0.0007437	0.0007437	61.63371	1.163371	1.564487	0.007021	0.0017063	0.0007437	61.63371	1.163371	61.63371	1.163371	61.63371	1.163371	61.63371	1.163371	61.63371	1.163371	61.63371	1.163371	61.63371	1.163371	61.63371	1.163371	61.63371	1.163371
48	E	62.18985	1.153557	1.153557	0.006620	0.0007437	0.0007437	0.0007437	0.0007437	62.77503	1.156422	1.564487	0.007021	0.0017063	0.0007437	62.77503	1.156422	62.77503	1.156422	62.77503	1.156422	62.77503	1.156422	62.77503	1.156422	62.77503	1.156422	62.77503	1.156422	62.77503	1.156422	62.77503	1.156422
49	E	63.33682	1.146979	1.146979	0.006578	0.0007437	0.0007437	0.0007437	0.0007437	63.92456	1.149525	1.564487	0.007021	0.0017063	0.0007437	63.92456	1.149525	63.92456	1.149525	63.92456	1.149525	63.92456	1.149525	63.92456	1.149525	63.92456	1.149525	63.92456	1.149525	63.92456	1.149525	63.92456	1.149525
50	E	64.47727	1.140446	1.140446	0.006533	0.0007437	0.0007437	0.0007437	0.0007437	65.06724	1.142681	1.564487	0.007021	0.0017063	0.0007437	65.06724	1.142681	65.06724	1.142681	65.06724	1.142681	65.06724	1.142681	65.06724	1.142681	65.06724	1.142681	65.06724	1.142681	65.06724	1.142681	65.06724	1.142681
51	E	65.61123	1.133961	1.133961	0.006485	0.0007437	0.0007437	0.0007437	0.0007437	66.20313	1.135894	1.564487	0.007021	0.0017063	0.0007437	66.20313	1.135894	66.20313	1.135894	66.20313	1.135894	66.20313	1.135894	66.20313	1.135894	66.20313	1.135894	66.20313	1.135894	66.20313	1.135894	66.20313	1.135894
52	E	66.73876	1.127526	1.127526	0.006435	0.0007437	0.0007437	0.0007437	0.0007437	67.33230	1.129167	1.564487	0.007021	0.0017063	0.0007437	67.33230	1.129167	67.33230	1.129167	67.33230	1.129167	67.33230	1.129167	67.33230	1.129167	67.33230	1.129167	67.33230	1.129167	67.33230	1.129167	67.33230	1.129167
53	E	67.85990	1.121145	1.121145	0.006381	0.0007437	0.0007437	0.0007437	0.0007437	68.45480	1.122503	1.564487	0.007021	0.0017063	0.0007437	68.45480	1.122503	68.45480	1.122503	68.45480	1.122503	68.45480	1.122503	68.45480	1.122503	68.45480	1.122503	68.45480	1.122503	68.45480	1.122503	68.45480	1.122503
54	E	68.97472	1.114820	1.114820	0.006325	0.0007437	0.0007437	0.0007437	0.0007437	69.57070	1.115903	1.564487	0.007021	0.0017063	0.0007437	69.57070	1.115903	69.57070	1.115903	69.57070	1.115903	69.57070	1.115903	69.57070	1.115903	69.57070	1.115903	69.57070	1.115903	69.57070	1.115903	69.57070	1.115903
55	E	70.08328	1.108554	1.108554	0.006266	0.0007437	0.0007437	0.0007437	0.0007437	70.68007	1.109370	1.564487	0.007021	0.0017063	0.0007437	70.68007	1.109370	70.68007	1.109370	70.68007	1.109370	70.68007	1.109370	70.68007	1.109370	70.68007	1.109370	70.68007	1.109370	70.68007	1.109370	70.68007	1.109370
56	E	71.18562	1.102347	1.102347	0.006207	0.0007437	0.0007437	0.0007437	0.0007437	71.78298	1.102906	1.564487	0.007021	0.0017063	0.0007437	71.78298	1.102906	71.78298	1.102906	71.78298	1.102906	71.78298	1.102906	71.78298	1.102906	71.78298	1.102906	71.78298	1.102906	71.78298	1.102906	71.78298	1.102906
57	E	72.28183	1.096203	1.096203	0.006144	0.0007437	0.0007437	0.0007437	0.0007437	72.77949	1.096512	1.564487	0.007021	0.0017063																			

ECCENTRICITY M		0.28		2ND DIF.	0.29		2ND DIF.	0.30		2ND DIF.
		1ST DIF.	2ND DIF.		1ST DIF.	2ND DIF.		1ST DIF.	2ND DIF.	
61	E	76.60649	1.072275	0.005882	77.20306	1.071668	0.006099	77.80058	1.070814	0.006312
	V	92.96446	1.103786	0.012142	94.19814	1.099121	0.012547	95.43335	1.093830	0.012934
62	E	77.67295	1.066462	0.005813	78.26870	1.065664	0.006024	78.86516	1.064585	0.006229
	V	94.05631	1.091850	0.011936	95.28494	1.086800	0.012321	96.51449	1.081142	0.012688
63	E	78.73367	1.060718	0.005744	79.32840	1.059697	0.005947	79.92360	1.058440	0.006145
	V	95.13643	1.080120	0.011730	96.35965	1.074704	0.012096	97.58319	1.068697	0.012445
64	E	79.78871	1.055044	0.005674	80.38223	1.053878	0.005869	80.97598	1.052380	0.006060
	V	96.20503	1.088596	0.011524	97.42248	1.062831	0.011873	98.63968	1.056494	0.012203
65	E	80.83815	1.049441	0.005603	81.43026	1.048036	0.005792	82.02239	1.046404	0.005976
	V	97.26230	1.057276	0.011320	98.47366	1.051180	0.011651	99.68421	1.044530	0.011964
66	E	81.88206	1.043909	0.005532	82.47259	1.042321	0.005715	83.06290	1.040513	0.005891
	V	98.30846	1.046159	0.011117	99.51341	1.039749	0.011431	100.71701	1.037802	0.011728
67	E	82.92051	1.038449	0.005460	83.50927	1.036685	0.005636	84.09761	1.034707	0.005806
	V	99.34370	1.035243	0.010916	100.54194	1.028535	0.011214	101.73832	1.021308	0.011494
68	E	83.95357	1.033060	0.005389	84.54040	1.031127	0.005558	85.12659	1.028986	0.005721
	V	100.36823	1.024527	0.010716	101.55948	1.017536	0.010999	102.74836	1.010044	0.011264
69	E	84.98131	1.027744	0.005316	85.56605	1.025663	0.005479	86.14994	1.023348	0.005638
	V	101.38224	1.014009	0.010518	102.56623	1.006750	0.010786	103.74737	0.999008	0.011036
70	E	86.00381	1.022500	0.005244	86.58629	1.020246	0.005402	87.16774	1.017795	0.005553
	V	102.38593	1.003687	0.010322	103.56240	0.996174	0.010576	104.73557	0.988195	0.010813
71	E	87.02114	1.017328	0.005172	87.60122	1.014923	0.005323	88.18006	1.012326	0.005469
	V	103.37949	0.993559	0.010128	104.54821	0.985805	0.010369	105.71317	0.977603	0.010592
72	E	88.03337	1.012228	0.005100	88.61089	1.009677	0.005246	89.18700	1.006940	0.005386
	V	104.36311	0.983623	0.009936	105.52385	0.975641	0.010164	106.68040	0.967228	0.010375
73	E	89.04057	1.007200	0.005028	89.61540	1.004509	0.005168	90.18864	1.001637	0.005303
	V	105.33699	0.973876	0.009747	106.44893	0.965678	0.009963	107.63147	0.957068	0.010160
74	E	90.04281	1.002245	0.004955	90.61482	0.995948	0.005091	91.18506	0.996417	0.005320
	V	106.30130	0.964317	0.009559	107.44544	0.955915	0.009763	108.58458	0.947117	0.009951
75	E	91.04017	0.997361	0.004884	91.60922	0.994403	0.005015	92.17634	0.991278	0.005139
	V	107.25624	0.954941	0.009376	108.39179	0.946347	0.009568	109.52196	0.937373	0.009744
76	E	92.03272	0.992548	0.004813	92.59869	0.989466	0.004937	93.16256	0.986221	0.005057
	V	108.20199	0.945748	0.009193	109.32876	0.936971	0.009376	110.44979	0.927833	0.009540
77	E	93.02053	0.987807	0.004741	93.58329	0.984604	0.004862	94.14380	0.981244	0.004977
	V	109.13873	0.936734	0.009014	110.25655	0.927786	0.009185	111.36828	0.918492	0.009341
78	E	94.00367	0.983137	0.004670	94.56311	0.979817	0.004787	95.12015	0.976347	0.004897
	V	110.06662	0.927897	0.008837	111.17533	0.918787	0.008999	112.27763	0.909347	0.009145
79	E	94.98220	0.978537	0.004600	95.53821	0.975105	0.004712	96.09168	0.971529	0.004818
	V	110.98586	0.919235	0.008662	112.08530	0.909972	0.008815	113.17802	0.900395	0.008952
80	E	95.95621	0.974007	0.004530	96.50868	0.970468	0.004637	97.05848	0.966790	0.004739
	V	111.89660	0.910744	0.008491	112.98664	0.901337	0.008635	114.06966	0.891632	0.008763
81	E	96.92576	0.969547	0.004460	97.47459	0.965904	0.004564	98.02059	0.962128	0.004662
	V	112.79902	0.902421	0.008323	113.87952	0.892879	0.008458	114.95271	0.883054	0.008578
82	E	97.89091	0.965155	0.004392	98.43600	0.961413	0.004491	98.97814	0.957543	0.004585
	V	113.69329	0.894265	0.008156	114.76412	0.884596	0.008283	115.82737	0.874658	0.008396
83	E	98.85175	0.960832	0.004323	99.39299	0.956995	0.004418	99.93117	0.953035	0.004508
	V	114.57956	0.886273	0.007992	115.64060	0.876484	0.008112	116.69381	0.866441	0.008217
84	E	99.80832	0.956578	0.004254	100.34564	0.952648	0.004347	100.87977	0.948602	0.004433
	V	115.45800	0.878441	0.007832	116.50914	0.868539	0.007945	117.55221	0.858399	0.008042
85	E	100.76071	0.952390	0.004188	101.29401	0.948372	0.004276	101.82402	0.944243	0.004359
	V	116.32877	0.870767	0.007674	117.36990	0.860760	0.007779	118.40274	0.850528	0.007871
86	E	101.70898	0.948270	0.004120	102.23818	0.944167	0.004205	102.76397	0.939958	0.004285
	V	117.19202	0.863249	0.007518	118.22304	0.853143	0.007617	119.24556	0.842826	0.007702
87	E	102.65320	0.944216	0.004054	103.17821	0.940031	0.004136	103.69972	0.935745	0.004213
	V	118.04790	0.852683	0.007366	119.06873	0.845685	0.007458	120.08085	0.835289	0.007537
88	E	103.59343	0.940227	0.003989	104.11417	0.935964	0.004067	104.63132	0.931605	0.004140
	V	118.89657	0.848668	0.007215	119.90711	0.838383	0.007302	120.90877	0.827914	0.007375
89	E	104.52973	0.936304	0.003923	105.04614	0.931965	0.003999	105.55886	0.927536	0.004069
	V	119.73817	0.841600	0.007068	120.73835	0.831234	0.007149	121.72946	0.820697	0.007217
90	E	105.46218	0.932445	0.003859	105.97417	0.928033	0.003932	106.48240	0.923537	0.003999
	V	120.57284	0.834677	0.006923	121.56258	0.824236	0.006998	122.54310	0.813635	0.007062

ECCENTRICITY M		10 ²⁸ DIF.		2ND DIF.		10 ²⁹ DIF.		2ND DIF.		10 ³⁰ DIF.		2ND DIF.	
		91	E	106.39083	0.928650	0.003795	106.89834	0.924168	0.003865	107.40200	0.919607	0.003930	107.9607
91	V	121.40074	0.827896	0.006781	122.37997	0.817385	122.37997	0.817385	0.006851	123.34982	0.806726	0.006909	0.806726
92	E	107.31574	0.924918	0.003732	107.81871	0.920369	107.81871	0.920369	0.003799	108.31775	0.915746	0.003861	0.915746
92	V	122.22199	0.821255	0.006641	123.19064	0.810679	123.19064	0.810679	0.006706	124.14979	0.799965	0.006761	0.799965
93	E	108.23699	0.921248	0.003670	108.73534	0.916635	108.73534	0.916635	0.003734	109.22970	0.911952	0.003794	0.911952
93	V	123.03675	0.814751	0.006504	123.99476	0.804114	123.99476	0.804114	0.006565	124.94314	0.792352	0.006613	0.792352
94	E	109.15463	0.917641	0.003607	109.64831	0.912966	109.64831	0.912966	0.003669	110.13793	0.908226	0.003726	0.908226
94	V	123.84513	0.808383	0.006368	124.79245	0.797889	124.79245	0.797889	0.006425	125.73002	0.786881	0.006471	0.786881
95	E	110.06873	0.914094	0.003547	110.55767	0.909360	110.55767	0.909360	0.003606	111.04249	0.904565	0.003661	0.904565
95	V	124.64727	0.802146	0.006237	125.58385	0.791400	125.58385	0.791400	0.006289	126.51057	0.780551	0.006330	0.780551
96	E	110.97933	0.910608	0.003486	111.46349	0.905817	111.46349	0.905817	0.003543	111.94346	0.900970	0.003595	0.900970
96	V	125.44331	0.796040	0.006106	126.36909	0.785246	126.36909	0.785246	0.006154	127.28493	0.774358	0.006193	0.774358
97	E	111.88652	0.907182	0.003426	112.36582	0.902336	112.36582	0.902336	0.003481	112.84090	0.897439	0.003531	0.897439
97	V	126.23338	0.790062	0.005978	127.14832	0.779223	127.14832	0.779223	0.006023	128.05323	0.768300	0.006058	0.768300
98	E	112.79033	0.903816	0.003366	113.26474	0.898917	113.26474	0.898917	0.003419	113.73487	0.893971	0.003468	0.893971
98	V	127.01756	0.784208	0.005854	127.92164	0.773328	127.92164	0.773328	0.005895	128.81560	0.762374	0.005926	0.762374
99	E	113.69084	0.900508	0.003308	114.16030	0.895558	114.16030	0.895558	0.003359	114.62544	0.890566	0.003405	0.890566
99	V	127.79606	0.778478	0.005730	128.68921	0.767560	128.68921	0.767560	0.005768	129.51266	0.756578	0.005796	0.756578
100	E	114.58810	0.897257	0.003251	115.05256	0.892260	115.05256	0.892260	0.003298	115.51266	0.887223	0.003343	0.887223
100	V	128.56893	0.772869	0.005609	129.45112	0.761916	129.45112	0.761916	0.005644	130.32309	0.750909	0.005669	0.750909
101	E	115.48216	0.894065	0.003192	115.94158	0.889020	115.94158	0.889020	0.003240	116.39660	0.883942	0.003281	0.883942
101	V	129.33631	0.767378	0.005491	130.20751	0.756394	130.20751	0.756394	0.005522	131.06845	0.745364	0.005545	0.745364
102	E	116.37309	0.890928	0.003137	116.82742	0.885840	116.82742	0.885840	0.003180	117.27732	0.880720	0.003222	0.880720
102	V	130.09831	0.762004	0.005374	130.95851	0.750991	130.95851	0.750991	0.005403	131.80840	0.739941	0.005423	0.739941
103	E	117.26094	0.887848	0.003080	117.71014	0.882716	117.71014	0.882716	0.003124	118.15488	0.877558	0.003162	0.877558
103	V	130.85506	0.756744	0.005260	131.70421	0.745705	131.70421	0.745705	0.005286	132.54303	0.734637	0.005304	0.734637
104	E	118.14576	0.884823	0.003025	118.58979	0.876651	118.58979	0.876651	0.003065	119.02934	0.874455	0.003103	0.874455
104	V	131.60666	0.751597	0.005147	132.44474	0.740534	132.44474	0.740534	0.005171	133.27248	0.729450	0.005187	0.729450
105	E	119.02761	0.881853	0.002970	119.46643	0.876641	119.46643	0.876641	0.003010	119.90075	0.871409	0.003046	0.871409
105	V	132.35321	0.746560	0.005037	133.18022	0.735475	133.18022	0.735475	0.005059	133.99686	0.724379	0.005071	0.724379
106	E	119.90655	0.878938	0.002915	120.34011	0.873687	120.34011	0.873687	0.002954	120.76917	0.868421	0.002988	0.868421
106	V	133.09484	0.741631	0.004929	133.91075	0.730527	133.91075	0.730527	0.004948	134.71628	0.719419	0.004960	0.719419
107	E	120.78263	0.876075	0.002863	121.21090	0.870788	121.21090	0.870788	0.002899	121.63466	0.865490	0.002931	0.865490
107	V	133.83165	0.736808	0.004823	134.63643	0.725688	134.63643	0.725688	0.004839	135.43085	0.714570	0.004849	0.714570
108	E	121.65589	0.873266	0.002809	122.07885	0.867944	122.07885	0.867944	0.002844	122.49727	0.862614	0.002876	0.862614
108	V	134.56374	0.732090	0.004718	135.35739	0.720955	135.35739	0.720955	0.004733	136.14068	0.709830	0.004740	0.709830
109	E	122.52640	0.870509	0.002757	122.94400	0.865154	122.94400	0.865154	0.002790	123.35706	0.859793	0.002821	0.859793
109	V	135.29122	0.727475	0.004615	136.07372	0.716326	136.07372	0.716326	0.004629	136.84587	0.705195	0.004635	0.705195
110	E	123.39421	0.867803	0.002706	123.80642	0.862416	123.80642	0.862416	0.002738	124.21409	0.857027	0.002766	0.857027
110	V	136.01418	0.722960	0.004515	136.78951	0.711800	136.78951	0.711800	0.004526	137.54654	0.700664	0.004531	0.700664
111	E	124.25935	0.865149	0.002654	124.66615	0.859731	124.66615	0.859731	0.002685	125.06841	0.854314	0.002713	0.854314
111	V	136.73272	0.718544	0.004416	137.49289	0.70707375	137.49289	0.70707375	0.004425	138.24277	0.696236	0.004428	0.696236
112	E	125.12190	0.862546	0.002603	125.52325	0.857098	125.52325	0.857098	0.002633	125.92006	0.851655	0.002659	0.851655
112	V	137.44695	0.714226	0.004318	138.19594	0.703048	138.19594	0.703048	0.004327	138.93468	0.691908	0.004328	0.691908
113	E	125.98189	0.859992	0.002554	126.37776	0.854516	126.37776	0.854516	0.002582	126.78911	0.849047	0.002608	0.849047
113	V	138.15695	0.710003	0.004223	138.89476	0.698819	138.89476	0.698819	0.004229	139.62236	0.687678	0.004230	0.687678
114	E	126.83938	0.857488	0.002504	127.22975	0.851984	127.22975	0.851984	0.002532	127.61560	0.846492	0.002555	0.846492
114	V	138.86283	0.705874	0.004129	139.58944	0.694684	139.58944	0.694684	0.004135	140.30591	0.683544	0.004134	0.683544
115	E	127.69441	0.855032	0.002456	128.07925	0.849503	128.07925	0.849503	0.002481	128.45959	0.843987	0.002505	0.843987
115	V	139.56466	0.701838	0.004036	140.28008	0.690844	140.28008	0.690844	0.004040	140.98541	0.679505	0.004039	0.679505
116	E	128.54704	0.852625	0.002407	128.92632	0.847071	128.92632	0.847071	0.002432	129.30112	0.841533	0.002454	0.841533
116	V	140.26255	0.697892	0.003946	140.96678	0.686695	140.96678	0.686695	0.003949	141.66097	0.675559	0.003946	0.675559
117	E	129.39730	0.850266	0.002359	129.77101	0.844688	129.77101	0.844688	0.002383	130.14025	0.839129	0.002404	0.839129
117	V	140.95659	0.694035	0.003857	141.64962	0.682837	141.64962	0.682837	0.003858	142.33268	0.671705	0.003854	0.671705
118	E	130.25256	0.847954	0.002312	130.61336	0.842353	130.61336	0.842353	0.002335	130.97702	0.836774	0.002355	0.836774
118	V	141.64685	0.690266	0.003769	142.32868	0.679067	142.32868	0.679067	0.003770	143.00061	0.667940	0.003765	0.667940
119	E	131.09095	0.845689	0.002265	131.45343	0.840066	131.45343	0.840066	0.002287	131.81149	0.834467	0.002307	0.834467
119	V	142.33344	0.686583	0.003683	143.00407	0.675384	143.00407	0.675384	0.003683	143.66488	0.664262	0.003678	0.664262
120	E	131.93442	0.843470	0.002219	132.29125	0.837826	132.29125	0.837826	0.002240	132.64370	0.832209	0.002258	0.832209
120	V	143.01642	0.682985	0.003598	143.67585	0.671187	143.67585	0.671187	0.003597	144.32555	0.660672	0.003590	0.660672

ECCENTRICITY
M

		0.28 1ST DIF.	2ND DIF.	0.29 1ST DIF.	2ND DIF.	0.30 1ST DIF.	2ND DIF.
121	E	132.77571	0.002173	133.12688	0.002193	133.47370	0.002211
	V	143.69589	0.003515	144.34413	0.003512	144.98271	0.003506
122	E	133.61488	0.002128	133.96037	0.002148	134.30153	0.002164
	V	144.37193	0.003433	145.00897	0.003430	145.63646	0.003423
123	E	134.45197	0.002083	134.79175	0.002101	135.12725	0.002118
	V	145.04461	0.003352	145.67047	0.003349	146.28686	0.003340
124	E	135.28702	0.002038	135.62108	0.002057	135.95089	0.002072
	V	145.71403	0.003273	146.32870	0.003268	146.93400	0.003260
125	E	136.12007	0.001995	136.44840	0.002012	136.77251	0.002026
	V	146.38025	0.003194	146.98374	0.003190	147.57796	0.003181
126	E	136.95117	0.001952	137.27374	0.001967	137.59214	0.001982
	V	147.04335	0.003118	147.63566	0.003112	148.21882	0.003103
127	E	137.78036	0.001908	138.09717	0.001924	138.40984	0.001938
	V	147.70340	0.003041	148.28455	0.003036	148.85666	0.003026
128	E	138.60769	0.001866	138.91871	0.001881	139.22565	0.001893
	V	148.36049	0.002968	148.93048	0.002961	149.49154	0.002951
129	E	139.43319	0.001824	139.73841	0.001838	140.03960	0.001851
	V	149.01469	0.002893	149.57352	0.002887	150.12354	0.002876
130	E	140.25691	0.001782	140.55632	0.001796	140.85175	0.001807
	V	149.66607	0.002822	150.21375	0.002815	150.75275	0.002804
131	E	141.07890	0.001741	141.37248	0.001754	141.66213	0.001765
	V	150.31470	0.002750	150.85123	0.002742	151.37922	0.002732
132	E	141.89918	0.001699	142.18692	0.001712	142.47079	0.001723
	V	150.96064	0.002680	151.48605	0.002672	152.00303	0.002661
133	E	142.71780	0.001660	142.99969	0.001671	143.27777	0.001682
	V	151.60398	0.002611	152.11826	0.002603	152.62424	0.002591
134	E	143.53480	0.001619	143.81083	0.001631	144.08310	0.001640
	V	152.24477	0.002542	152.74793	0.002534	153.24294	0.002523
135	E	144.35022	0.001579	144.62039	0.001590	144.88684	0.001599
	V	152.88309	0.002475	153.37514	0.002467	153.85918	0.002455
136	E	145.16410	0.001540	145.42839	0.001550	145.68902	0.001559
	V	153.51900	0.002409	153.95995	0.002400	154.47303	0.002389
137	E	145.97649	0.001501	146.23488	0.001511	146.48968	0.001520
	V	154.15256	0.002343	154.62243	0.002334	155.08456	0.002323
138	E	146.78741	0.001462	147.03989	0.001472	147.28886	0.001479
	V	154.78385	0.002278	155.24263	0.002270	155.69383	0.002258
139	E	147.59690	0.001424	147.84348	0.001433	148.08660	0.001441
	V	155.41292	0.002215	155.86063	0.002205	156.30090	0.002194
140	E	148.40501	0.001385	148.64567	0.001394	148.88294	0.001401
	V	156.03985	0.002151	156.47649	0.002143	156.90585	0.002131
141	E	149.21178	0.001348	149.44651	0.001356	149.67791	0.001363
	V	156.66468	0.002090	157.09027	0.002080	157.50272	0.002069
142	E	150.01723	0.001310	150.24602	0.001318	150.47156	0.001325
	V	157.28748	0.002028	157.70202	0.002019	158.10959	0.002008
143	E	150.82141	0.001273	151.04426	0.001281	151.26393	0.001287
	V	157.90832	0.002083	158.31182	0.002072	158.70851	0.002061
144	E	151.62435	0.001237	151.84125	0.001243	152.05504	0.001249
	V	158.52725	0.001907	158.91972	0.001898	159.30555	0.001887
145	E	152.42610	0.001199	152.63704	0.001207	152.84494	0.001212
	V	159.14433	0.001848	159.52579	0.001839	159.90075	0.001828
146	E	153.22668	0.001163	153.43166	0.001169	153.63367	0.001175
	V	159.75962	0.001790	160.13007	0.001781	160.49419	0.001770
147	E	154.02613	0.001128	154.22514	0.001134	154.42126	0.001139
	V	160.37318	0.001731	160.73263	0.001722	161.08591	0.001712
148	E	154.82449	0.001091	155.01752	0.001097	155.20774	0.001102
	V	160.98507	0.001674	161.33352	0.001665	161.67598	0.001655
149	E	155.62180	0.001056	155.80885	0.001062	155.99316	0.001066
	V	161.59534	0.001617	161.93280	0.001609	162.26445	0.001598
150	E	156.41809	0.001020	156.59915	0.001025	156.77755	0.001030
	V	162.20405	0.001561	162.53053	0.001553	162.85138	0.001543

ECCENTRICITY		0.28 1ST DIF.	2ND DIF.	0.29 1ST DIF.	2ND DIF.	0.30 1ST DIF.	2ND DIF.
151	E	157.21339	0.000985	157.38846	0.000991	157.56095	0.000994
	V	162.81125	0.001506	153.12677	0.001497	163.43682	0.001487
152	E	158.00774	0.000951	158.17681	0.000955	158.34338	0.000960
	V	163.41700	0.001450	163.72156	0.001442	164.02083	0.001433
153	E	158.80117	0.000935	158.96424	0.000920	159.12490	0.000924
	V	164.02136	0.001396	164.31497	0.001388	164.60346	0.001378
154	E	159.59373	0.000882	159.75079	0.000886	159.90552	0.000889
	V	164.62438	0.001342	164.90704	0.001334	165.18476	0.001325
155	E	160.38543	0.000847	160.53649	0.000851	160.68829	0.000854
	V	165.22610	0.001288	165.49783	0.001281	165.74624	0.001272
156	E	161.17632	0.000812	161.32137	0.000816	161.46420	0.000820
	V	165.82660	0.001235	166.08739	0.001227	166.34361	0.001219
157	E	161.96644	0.000779	162.10546	0.000783	162.24240	0.000785
	V	166.42591	0.001182	166.67578	0.001175	166.92612	0.001167
158	E	162.75581	0.000745	162.88881	0.000749	163.01981	0.000752
	V	167.02409	0.001130	167.26304	0.001123	167.49779	0.001115
159	E	163.54447	0.000713	163.67144	0.000715	163.79651	0.000717
	V	167.62119	0.001078	167.84924	0.001072	168.07326	0.001063
160	E	164.33245	0.000678	164.45340	0.000681	164.57522	0.000684
	V	168.21726	0.001026	168.43441	0.001020	168.64771	0.001013
161	E	165.11978	0.000645	165.23470	0.000648	165.34788	0.000650
	V	168.81236	0.000976	169.01862	0.000969	169.22121	0.000962
162	E	165.90651	0.000612	166.01539	0.000614	166.12263	0.000616
	V	169.40654	0.000924	169.60190	0.000919	169.79379	0.000912
163	E	166.69265	0.000579	166.79550	0.000582	166.89679	0.000584
	V	169.99984	0.000874	170.18432	0.000868	170.36551	0.000862
164	E	167.47825	0.000546	167.57506	0.000548	167.67040	0.000550
	V	170.59232	0.000824	170.76591	0.000818	170.93642	0.000812
165	E	168.26533	0.000513	168.35410	0.000515	168.44349	0.000517
	V	171.18402	0.000774	171.34675	0.000769	171.50636	0.000763
166	E	169.04794	0.000480	169.13267	0.000483	169.21610	0.000484
	V	171.77501	0.000724	171.92686	0.000720	172.07599	0.000714
167	E	169.83209	0.000449	169.91078	0.000450	169.98826	0.000452
	V	172.36531	0.000675	172.50630	0.000670	172.64476	0.000665
168	E	170.61584	0.000415	170.68847	0.000417	170.76000	0.000418
	V	172.95499	0.000625	173.08511	0.000621	173.21291	0.000617
169	E	171.39919	0.000383	171.46578	0.000385	171.53135	0.000387
	V	173.54409	0.000577	173.66336	0.000573	173.78049	0.000568
170	E	172.18220	0.000352	172.24274	0.000353	172.30235	0.000353
	V	174.13267	0.000528	174.24108	0.000525	174.34735	0.000521
171	E	172.96489	0.000318	173.01938	0.000320	173.07303	0.000321
	V	174.72076	0.000479	174.81833	0.000476	174.91414	0.000472
172	E	173.74729	0.000287	173.79572	0.000288	173.84342	0.000289
	V	175.30843	0.000431	175.39514	0.000428	175.48030	0.000425
173	E	174.52943	0.000255	174.57182	0.000256	174.61355	0.000257
	V	175.89571	0.000383	175.97158	0.000380	176.04609	0.000377
174	E	175.31136	0.000223	175.34769	0.000223	175.38346	0.000224
	V	176.48266	0.000334	176.54769	0.000332	176.61154	0.000330
175	E	176.09309	0.000191	176.12337	0.000192	176.15318	0.000193
	V	177.05932	0.000287	177.12351	0.000285	177.17672	0.000282
176	E	176.87466	0.000159	176.89888	0.000160	176.92274	0.000160
	V	177.65574	0.000239	177.719909	0.000237	177.747166	0.000235
177	E	177.65611	0.000127	177.67427	0.000127	177.69216	0.000128
	V	178.21197	0.000190	178.27448	0.000189	178.30641	0.000188
178	E	178.43746	0.000095	178.44957	0.000096	178.46150	0.000096
	V	178.82806	0.000144	178.84973	0.000142	178.87102	0.000141
179	E	179.21874	0.000064	179.22480	0.000064	179.23076	0.000064
	V	179.41405	0.000095	179.42489	0.000095	179.43553	0.000094
180	E	180.00000	0.000032	180.00000	0.000032	180.00000	0.000032
	V	180.00000	0.000048	180.00000	0.000047	180.00000	0.000047

ECCENTRICITY M		0.31			0.32			0.33		
		1ST DIF.			1ST DIF.			1ST DIF.		
		2ND DIF.			2ND DIF.			2ND DIF.		
1	E	1.44921	1.47051	1.49245	1.47051	1.49245	1.49245	1.49245	1.49245	1.49245
2	V	1.99673	2.04870	2.10264	2.04870	2.10264	2.10264	2.10264	2.10264	2.10264
3	E	3.99232	1.448790	2.89800	4.09613	1.470057	1.470057	1.470057	1.470057	1.470057
4	E	4.34595	1.99588	1.447959	4.40972	2.047433	2.047433	2.047433	2.047433	2.047433
5	E	5.98562	1.993299	1.447959	6.14104	2.044901	2.044901	2.044901	2.044901	2.044901
6	V	5.79267	1.446716	1.99879	5.77750	1.467788	1.467788	1.467788	1.467788	1.467788
7	E	7.97550	1.989879	0.003420	8.18215	2.041118	2.041118	2.041118	2.041118	2.041118
8	E	7.23774	1.445065	0.001651	7.34349	1.465983	1.465983	1.465983	1.465983	1.465983
9	E	9.96084	1.985342	0.004537	10.21825	2.036101	2.036101	2.036101	2.036101	2.036101
10	E	8.68075	1.443013	0.002052	8.80723	1.463739	1.463739	1.463739	1.463739	1.463739
11	E	11.94055	1.979707	0.005635	12.24813	2.029874	2.029874	2.029874	2.029874	2.029874
12	E	10.12131	1.440566	0.002447	10.26829	1.461065	1.461065	1.461065	1.461065	1.461065
13	E	13.91255	1.972998	0.006709	14.27059	2.022464	2.022464	2.022464	2.022464	2.022464
14	E	11.59905	1.437732	0.002834	11.72626	1.457971	1.457971	1.457971	1.457971	1.457971
15	E	15.87879	1.965244	0.007754	16.28450	2.013906	2.013906	2.013906	2.013906	2.013906
16	E	12.99357	1.434522	0.003210	13.18073	1.454466	1.454466	1.454466	1.454466	1.454466
17	E	17.83527	1.956476	0.008768	18.28873	2.004236	2.004236	2.004236	2.004236	2.004236
18	E	14.42451	1.430944	0.003578	14.63129	1.450564	1.450564	1.450564	1.450564	1.450564
19	E	19.78200	1.946731	0.009745	20.28223	1.993496	1.993496	1.993496	1.993496	1.993496
20	E	15.85153	1.427012	0.003932	16.07757	1.446278	1.446278	1.446278	1.446278	1.446278
21	E	21.71805	1.936047	0.010684	22.26396	1.981733	1.981733	1.981733	1.981733	1.981733
22	E	17.27426	1.422737	0.004275	17.51919	1.441622	1.441622	1.441622	1.441622	1.441622
23	E	23.64251	1.924465	0.011582	24.23296	1.968994	1.968994	1.968994	1.968994	1.968994
24	E	18.69240	1.418134	0.004603	18.95580	1.436612	1.436612	1.436612	1.436612	1.436612
25	E	25.55454	1.912031	0.012434	26.18829	1.955332	1.955332	1.955332	1.955332	1.955332
26	E	20.10561	1.413215	0.004919	20.38707	1.431263	1.431263	1.431263	1.431263	1.431263
27	E	27.45333	1.898790	0.013241	28.12909	1.940801	1.940801	1.940801	1.940801	1.940801
28	E	21.51361	1.407995	0.005220	21.81266	1.4215593	1.4215593	1.4215593	1.4215593	1.4215593
29	E	29.33812	1.884790	0.014000	30.05455	1.925455	1.925455	1.925455	1.925455	1.925455
30	E	22.91610	1.402490	0.005505	23.23228	1.419619	1.419619	1.419619	1.419619	1.419619
31	E	31.20820	1.870080	0.014710	31.96390	1.909352	1.909352	1.909352	1.909352	1.909352
32	E	24.31281	1.396715	0.005775	24.64564	1.413359	1.413359	1.413359	1.413359	1.413359
33	E	33.06291	1.854711	0.015369	33.85564	1.925247	1.925247	1.925247	1.925247	1.925247
34	E	25.70350	1.390685	0.006030	26.05247	1.406830	1.406830	1.406830	1.406830	1.406830
35	E	34.90164	1.838732	0.015979	35.73155	1.875104	1.875104	1.875104	1.875104	1.875104
36	E	27.08791	1.384417	0.006268	27.45252	1.400030	1.400030	1.400030	1.400030	1.400030
37	E	36.72384	1.822195	0.016537	37.58863	1.950705	1.950705	1.950705	1.950705	1.950705
38	E	28.46584	1.377926	0.006491	28.84556	1.393038	1.393038	1.393038	1.393038	1.393038
39	E	38.52899	1.805149	0.017046	39.42715	1.938520	1.938520	1.938520	1.938520	1.938520
40	E	29.83707	1.371229	0.006697	30.23137	1.385812	1.385812	1.385812	1.385812	1.385812
41	E	40.31663	1.787645	0.017504	41.24664	1.819495	1.819495	1.819495	1.819495	1.819495
42	E	31.20141	1.364342	0.006887	31.60976	1.378359	1.378359	1.378359	1.378359	1.378359
43	E	42.08636	1.769732	0.017913	43.04670	1.800055	1.800055	1.800055	1.800055	1.800055
44	E	32.55869	1.357280	0.007062	32.98054	1.370787	1.370787	1.370787	1.370787	1.370787
45	E	43.83782	1.751458	0.018274	44.82695	1.780255	1.780255	1.780255	1.780255	1.780255
46	E	33.90875	1.350058	0.007222	34.34357	1.363023	1.363023	1.363023	1.363023	1.363023
47	E	45.57069	1.732870	0.018588	46.58710	1.760147	1.760147	1.760147	1.760147	1.760147
48	E	35.25144	1.342692	0.007366	35.69868	1.555114	1.555114	1.555114	1.555114	1.555114
49	E	47.28471	1.714013	0.018857	48.52688	1.739781	1.739781	1.739781	1.739781	1.739781
50	E	36.58664	1.335197	0.007495	37.04576	1.347077	1.347077	1.347077	1.347077	1.347077
51	E	48.97964	1.694931	0.019082	50.04608	1.719205	1.719205	1.719205	1.719205	1.719205
52	E	37.91422	1.327587	0.007610	38.38469	1.338928	1.338928	1.338928	1.338928	1.338928
53	E	50.65530	1.675666	0.019265	51.74455	1.698467	1.698467	1.698467	1.698467	1.698467
54	E	39.23410	1.319876	0.007711	39.71537	1.330681	1.330681	1.330681	1.330681	1.330681
55	E	52.31156	1.656257	0.019409	53.42216	1.677609	1.677609	1.677609	1.677609	1.677609
56	E	40.54618	1.312078	0.007798	41.03772	1.322352	1.322352	1.322352	1.322352	1.322352
57	E	53.94830	1.636744	0.019513	55.07883	1.656674	1.656674	1.656674	1.656674	1.656674
58	E	41.85038	1.304206	0.007872	42.53167	1.313955	1.313955	1.313955	1.313955	1.313955
59	E	55.56547	1.617162	0.019582	56.71453	1.635700	1.635700	1.635700	1.635700	1.635700

0.000995
0.002801
0.001487
0.0004184
0.001973
0.005546
0.002453
0.006881
0.002921
0.008182
0.003379
0.009445
0.003825
0.010663
0.004255
0.011831
0.004670
0.012947
0.005069
0.014905
0.005450
0.015003
0.005812
0.015938
0.006155
0.016810
0.006478
0.017616
0.006782
0.018355
0.007064
0.019028
0.007327
0.019636
0.020177
0.007790
0.020656
0.007992
0.021071
0.008174
0.008481
0.008607
0.022152
0.008716
0.022289
0.008808
0.022379
0.008884
0.022423
0.008944
0.022427

ECCENTRICITY

		1ST DIF.	2ND DIF.	1ST ³ DIF.	2ND DIF.	1ST ³ DIF.	2ND DIF.	1ST ³ DIF.	2ND DIF.
31	E	43.14665	0.007935	43.65718	0.005502	1.305502	0.008453	44.17606	0.008991
	V	57.16301	0.019616	58.32926	0.019616	1.614724	0.020976	59.51864	0.022389
32	E	44.43494	0.007984	44.95438	0.007984	1.297008	0.008494	45.48160	0.009023
	V	58.74094	0.019619	59.95434	0.019619	1.5993779	0.020945	61.12762	0.022318
33	E	45.71520	0.008023	46.24267	0.008023	1.288484	0.008524	46.77811	0.009043
	V	60.29927	0.019592	61.49594	0.019592	1.572899	0.020880	62.71438	0.022212
34	E	46.98742	0.008051	47.52261	0.008051	1.279941	0.008543	48.06556	0.009050
	V	61.83807	0.019537	63.04805	0.019537	1.552111	0.020788	64.27906	0.022075
35	E	48.25156	0.008068	48.79400	0.008068	1.271390	0.008551	49.34396	0.009047
	V	63.35741	0.019456	64.57949	0.019456	1.531443	0.020668	65.82183	0.021912
36	E	49.50763	0.008076	50.05684	0.008076	1.262843	0.008547	50.61334	0.009032
	V	64.85741	0.019351	66.09041	0.019351	1.510920	0.020523	67.34289	0.021722
37	E	50.75563	0.008075	51.31115	0.008075	1.254307	0.008536	51.87370	0.009007
	V	66.33817	0.019224	67.58097	0.019224	1.490564	0.020356	68.84243	0.021510
38	E	51.99556	0.008065	52.55694	0.008065	1.245792	0.008515	53.12509	0.008974
	V	67.79986	0.019077	69.05137	0.019077	1.470396	0.020168	70.32069	0.021277
39	E	53.22744	0.019381	53.79425	0.019381	1.237307	0.008485	54.36755	0.008932
	V	69.24264	0.018912	70.50180	0.018912	1.450434	0.019962	71.77793	0.021027
40	E	54.65130	0.008022	55.02310	0.008022	1.228858	0.008449	55.60113	0.008881
	V	70.66669	0.018731	71.93250	0.018731	1.430893	0.019741	73.21441	0.020760
41	E	55.66716	0.007990	56.24356	0.007990	1.2220453	0.008405	56.82589	0.008825
	V	72.07220	0.018533	73.34369	0.018533	1.411190	0.019503	74.63040	0.021598
42	E	56.87508	0.007952	57.45566	0.007952	1.212099	0.008354	58.04188	0.008761
	V	73.45939	0.018324	74.73563	0.018324	1.391937	0.019253	76.02622	0.020186
43	E	58.07509	0.007907	58.65946	0.007907	1.203802	0.008297	59.24918	0.008692
	V	74.82848	0.018102	76.10857	0.018102	1.372944	0.018993	77.40215	0.019883
44	E	59.26724	0.007857	59.85503	0.007857	1.195566	0.008236	60.44786	0.008617
	V	76.17970	0.017870	77.46279	0.017870	1.354223	0.018721	78.75850	0.019570
45	E	60.45159	0.007802	61.04282	0.007802	1.187397	0.008169	61.63801	0.008537
	V	77.51329	0.017628	78.79857	0.017628	1.335781	0.018442	80.09561	0.019251
46	E	61.62820	0.007743	62.22172	0.007743	1.179300	0.008097	62.81971	0.008452
	V	78.82950	0.017379	80.11620	0.017379	1.317625	0.018156	81.41380	0.018925
47	E	62.79713	0.007678	63.39300	0.007678	1.1717279	0.008021	63.99304	0.008365
	V	80.12859	0.017123	81.41596	0.017123	1.299761	0.017864	82.71338	0.019958
48	E	63.95845	0.007611	64.55634	0.007611	1.163337	0.007942	65.15809	0.008575
	V	82.67645	0.016861	82.69815	0.016861	1.282194	0.017567	83.99471	0.018326
49	E	65.11223	0.007539	65.71181	0.007539	1.155477	0.007860	66.31497	0.008178
	V	82.67645	0.016594	83.96308	0.016594	1.264928	0.017266	85.25811	0.017925
50	E	66.25855	0.007465	66.85952	0.007465	1.147703	0.007774	67.46377	0.008080
	V	83.92576	0.016325	85.21105	0.016325	1.247964	0.016964	86.50392	0.017588
51	E	67.39747	0.007388	67.99953	0.007388	1.140017	0.007686	68.60459	0.007982
	V	85.15901	0.016051	86.44235	0.016051	1.231306	0.016658	87.73249	0.017250
52	E	68.52909	0.007308	69.13196	0.007308	1.132422	0.007595	69.73753	0.007879
	V	86.37649	0.015776	87.65730	0.015776	1.214953	0.016353	88.94414	0.016913
53	E	69.65349	0.007226	70.25688	0.007226	1.124919	0.007503	70.86269	0.007776
	V	87.57847	0.015081	88.85621	0.015081	1.198906	0.016047	90.13921	0.016575
54	E	70.77074	0.007143	71.37438	0.007143	1.117510	0.007409	71.98018	0.007671
	V	88.76523	0.014944	91.20711	0.014944	1.110196	0.007314	73.09011	0.016241
55	E	71.88093	0.007057	72.48458	0.007057	1.110196	0.007314	73.09011	0.015908
	V	89.93705	0.014668	92.35970	0.014668	1.102979	0.015836	92.48097	0.015666
56	E	72.98415	0.006969	73.58756	0.006969	1.102979	0.015836	92.48097	0.015246
	V	91.09420	0.014391	93.49747	0.014391	1.137767	0.014851	94.76042	0.014557
57	E	74.08049	0.006882	74.68342	0.006882	1.095860	0.014719	75.28769	0.014349
	V	92.23695	0.014276	93.49747	0.014276	1.137767	0.014851	94.76042	0.013209
58	E	75.17004	0.006793	75.77226	0.006793	1.088840	0.014532	76.37556	0.012744
	V	93.36559	0.014116	94.62071	0.014116	1.123235	0.014532	95.87759	0.011712
59	E	76.25289	0.006702	76.85418	0.006702	1.081918	0.014235	77.45629	0.01135
	V	94.48039	0.013843	95.72971	0.013843	1.109000	0.014235	96.98015	0.014608
60	E	77.32913	0.006612	77.92927	0.006612	1.075095	0.013943	78.53000	0.007308
	V	95.58161	0.013572	96.82476	0.013572	1.095057	0.013943	98.06843	0.014292

ECCENTRICITY
M

		0.31 1ST DIF.	2ND DIF.	0.32 1ST DIF.	2ND DIF.	0.33 1ST DIF.	2ND DIF.
61	E	78.39884	1.069715	0.006520	78.93765	1.068372	0.006723
	V	96.66953	1.087921	0.013304	97.90617	1.081404	0.013653
62	E	79.46213	1.063286	0.006429	80.05939	1.061749	0.006623
	V	97.74442	1.074884	0.013037	98.97421	1.068038	0.013366
63	E	80.51908	1.056949	0.006337	81.11462	1.055225	0.006524
	V	98.80653	1.062109	0.012775	100.02916	1.054953	0.013085
64	E	81.56978	1.050703	0.006246	82.16342	1.048801	0.006424
	V	99.85612	1.049595	0.012514	101.07131	1.042147	0.012806
65	E	82.61433	1.044550	0.006153	83.20590	1.042476	0.006325
	V	100.89346	1.037337	0.012258	102.10092	1.029615	0.012532
66	E	83.65282	1.038488	0.006062	84.24215	1.036249	0.006227
	V	101.91879	1.025332	0.012005	103.11827	1.017352	0.012263
67	E	84.68933	1.032518	0.005970	85.27227	1.030121	0.006128
	V	102.93237	1.013576	0.011756	104.12363	1.005354	0.011998
68	E	85.71197	1.026638	0.005880	86.29636	1.024090	0.006031
	V	103.93443	1.002066	0.011510	105.11724	0.993617	0.011737
69	E	86.73282	1.020850	0.005788	87.31451	1.018156	0.005934
	V	104.92523	0.990797	0.011269	106.09938	0.982135	0.011482
70	E	87.74797	1.015151	0.005699	88.32683	1.012318	0.005838
	V	105.90500	0.979767	0.011030	107.07028	0.970905	0.011230
71	E	88.75751	1.009542	0.005609	89.33341	1.006576	0.005742
	V	106.87397	0.968970	0.010797	108.03021	0.959922	0.010983
72	E	89.76154	1.004022	0.005520	90.33434	1.000929	0.005647
	V	107.83237	0.958403	0.010567	109.79399	0.949181	0.010741
73	E	90.76013	0.998591	0.005431	91.32971	0.995375	0.005554
	V	108.78043	0.948061	0.010342	109.91806	0.938676	0.010505
74	E	91.75338	0.993247	0.005344	92.31963	0.989914	0.005461
	V	109.71837	0.937941	0.010120	110.84647	0.928404	0.010272
75	E	92.74137	0.987990	0.005257	93.30417	0.984545	0.005369
	V	110.64641	0.928039	0.009902	111.76483	0.918361	0.010043
76	E	93.72418	0.982819	0.005171	94.28344	0.979266	0.005279
	V	111.56476	0.918350	0.009689	112.67337	0.908540	0.009821
77	E	94.70192	0.977723	0.005086	95.25751	0.974078	0.005188
	V	112.47363	0.908870	0.009480	113.57230	0.989898	0.009602
78	E	95.67465	0.927232	0.005001	96.22649	0.968978	0.005100
	V	113.37323	0.899596	0.009274	114.46185	0.889549	0.009389
79	E	96.64246	0.967814	0.004918	97.13046	0.963966	0.005012
	V	114.26375	0.890522	0.009074	115.34223	0.860371	0.009178
80	E	97.60544	0.962979	0.004835	98.14950	0.959040	0.009040
	V	115.14540	0.881646	0.008876	116.21362	0.871397	0.008974
81	E	98.56367	0.958225	0.004754	99.10370	0.954201	0.004839
	V	116.01836	0.872964	0.008682	117.07625	0.862624	0.008773
82	E	99.51722	0.953552	0.004673	100.05314	0.949445	0.004756
	V	116.88283	0.864470	0.008494	117.93029	0.854048	0.008576
83	E	100.46618	0.948959	0.004593	100.99792	0.944773	0.004672
	V	117.73899	0.856162	0.008308	118.77596	0.845663	0.008385
84	E	101.41062	0.944445	0.004514	101.93810	0.940184	0.004589
	V	118.58703	0.848036	0.008126	119.61343	0.837467	0.008196
85	E	102.35063	0.940009	0.004436	102.87378	0.935675	0.004509
	V	119.42712	0.840088	0.007948	120.44288	0.829454	0.008013
86	E	103.28628	0.935649	0.004360	103.80502	0.931247	0.004428
	V	120.25943	0.832314	0.007774	121.26450	0.821621	0.007833
87	E	104.21765	0.931366	0.004283	104.73192	0.926897	0.004350
	V	121.08414	0.824710	0.007604	122.07847	0.813964	0.007657
88	E	105.14480	0.927157	0.004209	105.65455	0.922626	0.004271
	V	121.90141	0.817274	0.007436	122.88494	0.806479	0.007485
89	E	106.06783	0.923023	0.004134	106.57298	0.918431	0.007316
	V	122.71141	0.810001	0.007273	123.68411	0.799163	0.007163
90	E	106.98679	0.918961	0.004062	107.48729	0.914312	0.006419
	V	123.51430	0.802888	0.007113	124.47612	0.792010	0.007153

ECCENTRICITY		0.31 1ST DIF.	2ND DIF.	0.32 1ST DIF.	2ND DIF.	0.33 1ST DIF.	2ND DIF.
91	E	107.90176	0.914972	108.399756	0.910267	108.88935	0.905499
	V	124.31023	0.795932	125.26114	0.785019	126.20248	0.773999
92	E	108.81281	0.911053	109.30385	0.906296	109.79083	0.901480
	V	125.09936	0.789129	126.03932	0.778184	126.96963	0.767143
93	E	109.72002	0.907205	110.20625	0.902398	110.68836	0.897536
	V	125.88184	0.782477	126.81082	0.771504	127.73007	0.760445
94	E	110.62344	0.903426	111.10482	0.898571	111.58303	0.893666
	V	126.65781	0.775972	127.57580	0.764974	128.48397	0.753900
95	E	111.52316	0.899715	111.99963	0.894814	112.47190	0.889867
	V	127.42742	0.769610	128.33439	0.758591	129.23148	0.747506
96	E	112.41923	0.896072	112.89076	0.891127	113.35804	0.886141
	V	128.19081	0.763389	129.08674	0.752352	129.97273	0.741258
97	E	113.31172	0.892494	113.77827	0.887508	114.24052	0.882484
	V	128.94812	0.757307	129.83299	0.746254	130.70789	0.735153
98	E	114.20071	0.888983	114.66223	0.883957	115.11942	0.878897
	V	129.69948	0.751359	130.57329	0.740293	131.43707	0.729188
99	E	115.08624	0.885536	115.54270	0.880472	115.99480	0.875378
	V	130.44502	0.745544	131.30776	0.734468	116.60488	0.723360
100	E	115.96840	0.882153	116.41975	0.877052	116.86672	0.871926
	V	131.18488	0.739858	132.03653	0.728774	132.87810	0.717666
101	E	116.84723	0.878832	117.29345	0.873697	117.73526	0.868540
	V	131.91918	0.734299	132.75974	0.723209	133.59020	0.712103
102	E	117.72280	0.875574	118.16385	0.870406	118.60048	0.865219
	V	132.64804	0.728864	133.47751	0.717770	134.29687	0.706668
103	E	118.59518	0.872377	119.03103	0.867177	119.46344	0.861962
	V	133.37159	0.723550	134.18996	0.712455	134.99823	0.701358
104	E	119.46442	0.869240	119.89504	0.864010	120.32121	0.858768
	V	134.08995	0.718356	134.89722	0.860904	135.69440	0.856370
105	E	120.33058	0.866162	120.75594	0.860904	121.17685	0.855637
	V	134.80323	0.715279	135.59941	0.702184	136.38550	0.851103
106	E	121.19372	0.863144	121.61380	0.857857	122.02947	0.852566
	V	135.51154	0.708315	136.29663	0.857224	137.07166	0.848951
107	E	122.05391	0.860183	122.46867	0.854870	122.87897	0.849557
	V	136.21501	0.857279	136.98901	0.852377	137.75297	0.84837
108	E	122.91119	0.857279	123.32061	0.851942	123.72558	0.846606
	V	136.91373	0.858723	137.67665	0.847641	138.42956	0.843714
109	E	123.76562	0.854431	124.16968	0.849071	124.56929	0.843114
	V	137.60782	0.854089	138.35966	0.843014	139.10154	0.840880
110	E	124.61726	0.851639	125.01594	0.846256	125.41017	0.840880
	V	138.29738	0.859560	139.03816	0.843498	139.76901	0.838103
111	E	125.46616	0.848902	125.85944	0.843498	126.24827	0.838103
	V	138.98251	0.855135	139.71223	0.840416	140.43208	0.835382
112	E	126.31238	0.846219	126.70023	0.840794	127.08366	0.835382
	V	139.66332	0.860811	140.38200	0.837653	141.09085	0.832716
113	E	127.15597	0.843590	127.53838	0.838145	127.91637	0.832716
	V	140.33991	0.876586	141.04755	0.865549	141.74542	0.830105
114	E	127.99698	0.841013	128.37393	0.835550	128.74648	0.830105
	V	141.01237	0.872459	141.70898	0.861434	142.39589	0.825472
115	E	128.83547	0.838488	129.20693	0.833007	129.57402	0.825472
	V	141.68080	0.868427	142.36639	0.857415	143.04236	0.825043
116	E	129.67148	0.836015	130.03745	0.830517	130.39907	0.825043
	V	142.34529	0.864490	143.01988	0.853490	143.68493	0.822564
117	E	130.50507	0.833592	130.86553	0.828078	131.22166	0.822564
	V	143.00593	0.860644	143.66954	0.849657	144.32368	0.820189
118	E	131.33629	0.831219	131.69122	0.825690	132.04185	0.820189
	V	143.66282	0.856888	144.31546	0.845916	144.95870	0.817840
119	E	132.16519	0.828896	132.51457	0.823352	132.85969	0.817840
	V	144.31604	0.853221	144.95772	0.842264	145.59010	0.815540
120	E	132.99181	0.826621	133.33563	0.821064	133.67523	0.815540
	V	144.96568	0.8649641	145.59642	0.838699	146.21794	0.815540

ECCENTRICITY M		0.31		0.32		0.33	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
121	E	133.81620	0.824395	0.002226	0.002226	0.813290	0.002250
122	V	145.61183	0.646146	0.003495	0.003495	0.8624387	0.003460
123	E	134.63842	0.822216	0.002179	0.002179	0.811088	0.002202
124	V	146.25456	0.642736	0.003410	0.003410	0.8621012	0.003375
125	E	135.45851	0.820084	0.002132	0.002132	0.808935	0.002153
126	V	146.89397	0.639407	0.003329	0.003329	0.8617719	0.003293
127	E	136.27650	0.817999	0.002085	0.002085	0.806830	0.002105
128	V	147.53013	0.636160	0.003247	0.003247	0.8614508	0.003211
129	E	137.09246	0.815960	0.002039	0.002039	0.804771	0.002059
130	V	148.16312	0.632992	0.003168	0.003168	0.8611376	0.003132
131	E	137.90643	0.813966	0.001994	0.001994	0.802759	0.002012
132	V	148.79302	0.629902	0.003090	0.003090	0.8608323	0.003053
133	E	138.71845	0.812017	0.001949	0.001949	0.800793	0.001966
134	V	149.41991	0.626890	0.003012	0.003012	0.8605347	0.002976
135	E	139.52856	0.810113	0.001904	0.001904	0.798872	0.001921
136	V	150.03681	0.623952	0.002938	0.002938	0.8602446	0.002901
137	E	141.94791	0.808252	0.001861	0.001861	0.796996	0.001876
138	V	150.66496	0.621090	0.002862	0.002862	0.8599620	0.002826
139	E	141.14325	0.806435	0.001817	0.001817	0.795164	0.001832
140	V	151.28325	0.618300	0.002790	0.002790	0.8596866	0.002754
141	E	141.94791	0.804661	0.001774	0.001774	0.793376	0.001788
142	V	151.89884	0.615582	0.002718	0.002718	0.8594185	0.002681
143	E	142.75084	0.802929	0.001732	0.001732	0.791631	0.001745
144	V	152.51177	0.612935	0.002647	0.002647	0.8591574	0.002611
145	E	143.55208	0.801239	0.001690	0.001690	0.789929	0.001702
146	V	153.12213	0.610358	0.002577	0.002577	0.8589033	0.002541
147	E	144.35167	0.799591	0.001648	0.001648	0.788269	0.001660
148	V	153.72998	0.607849	0.002509	0.002509	0.858560	0.002473
149	E	145.14965	0.797983	0.001608	0.001608	0.786651	0.001618
150	V	154.33539	0.605408	0.002441	0.002441	0.8584155	0.002405
151	E	145.94607	0.796417	0.001566	0.001566	0.785075	0.001576
152	V	154.93842	0.603033	0.002375	0.002375	0.8581816	0.002339
153	E	146.74096	0.794891	0.001526	0.001526	0.783539	0.001536
154	V	155.53914	0.600725	0.002308	0.002308	0.8579542	0.002274
155	E	147.53436	0.793405	0.001486	0.001486	0.782044	0.001495
156	V	156.13762	0.598480	0.002245	0.002245	0.8577332	0.002210
157	E	148.32632	0.791958	0.001447	0.001447	0.780589	0.001455
158	V	156.73392	0.596300	0.002180	0.002180	0.8575185	0.002147
159	E	149.11687	0.790551	0.001407	0.001407	0.7779173	0.001416
160	V	157.32811	0.594183	0.002117	0.002117	0.8573101	0.002084
161	E	149.90606	0.789182	0.001369	0.001369	0.777797	0.001376
162	V	157.92023	0.592127	0.002056	0.002056	0.8571079	0.002022
163	E	150.69391	0.787852	0.001330	0.001330	0.776460	0.001337
164	V	158.51037	0.590133	0.001994	0.001994	0.8569117	0.001962
165	E	151.8047	0.786560	0.001292	0.001292	0.775162	0.001298
166	V	159.09857	0.588199	0.001934	0.001934	0.8567215	0.001902
167	E	152.26577	0.785306	0.001254	0.001254	0.773901	0.001261
168	V	159.68489	0.586325	0.001874	0.001874	0.8565372	0.001843
169	E	153.04986	0.784090	0.001216	0.001216	0.772679	0.001222
170	V	160.26940	0.584510	0.001815	0.001815	0.8563587	0.001785
171	E	153.83277	0.782910	0.001180	0.001180	0.771494	0.001185
172	V	160.85215	0.582753	0.001757	0.001757	0.8561860	0.001727
173	E	154.61454	0.781768	0.001142	0.001142	0.770346	0.001148
174	V	161.43320	0.581053	0.001700	0.001700	0.8560190	0.001670
175	E	155.39520	0.780662	0.001106	0.001106	0.769236	0.001110
176	V	162.01262	0.579410	0.001643	0.001643	0.8558576	0.001614
177	E	156.17480	0.779592	0.001070	0.001070	0.768162	0.001074
178	V	162.59044	0.577824	0.001586	0.001586	0.8557017	0.001559
179	E	156.95335	0.778559	0.001033	0.001033	0.767124	0.001038
180	V	163.16673	0.576293	0.001531	0.001531	0.8555513	0.001504

ECCENTRICITY M		0.33				0.32				0.33				0.33			
		1ST DIF.		2ND DIF.		1ST DIF.		2ND DIF.		1ST DIF.		2ND DIF.		1ST DIF.		2ND DIF.	
151	E	157.73092	0.777561	0.000998	157.89841	0.771804	0.001000	158.06349	0.766123	0.001001	158.06349	0.766123	0.001001	0.766123	0.001001	0.001001	0.001001
152	V	163.74155	0.574817	0.001476	164.04110	0.564359	0.001463	164.33562	0.554064	0.001449	164.33562	0.554064	0.001449	0.554064	0.001449	0.001449	0.001449
153	V	159.28319	0.573395	0.001422	164.60405	0.562950	0.001409	164.88829	0.552668	0.001396	164.88829	0.552668	0.001396	0.552668	0.001396	0.001396	0.001396
154	V	164.88697	0.775672	0.000927	159.43916	0.769911	0.000929	159.59287	0.764227	0.000930	159.59287	0.764227	0.000930	0.764227	0.000930	0.000930	0.000930
155	E	160.83189	0.570713	0.000857	160.97634	0.768159	0.000858	161.11867	0.762472	0.000860	161.11867	0.762472	0.000860	0.762472	0.000860	0.000860	0.000860
156	E	166.02714	0.569451	0.001262	166.28498	0.559040	0.001251	166.53845	0.548796	0.001239	166.53845	0.548796	0.001239	0.548796	0.001239	0.001239	0.001239
157	E	162.37731	0.772314	0.000788	162.51022	0.766545	0.000790	162.64118	0.760857	0.000790	162.64118	0.760857	0.000790	0.760857	0.000790	0.000790	0.000790
158	V	167.16246	0.567085	0.001157	167.39951	0.556695	0.001147	167.63253	0.546474	0.001136	167.63253	0.546474	0.001136	0.546474	0.001136	0.001136	0.001136
159	E	163.91971	0.770841	0.000719	164.04108	0.765070	0.000720	164.16066	0.759380	0.000721	164.16066	0.759380	0.000721	0.759380	0.000721	0.000721	0.000721
160	E	168.29336	0.564924	0.001055	168.50967	0.554554	0.001045	168.72227	0.544354	0.001035	168.72227	0.544354	0.001035	0.544354	0.001035	0.001035	0.001035
161	E	165.45937	0.769504	0.000651	165.56919	0.763730	0.000653	165.67739	0.758039	0.000653	165.67739	0.758039	0.000653	0.758039	0.000653	0.000653	0.000653
162	V	169.42025	0.562965	0.000954	169.61584	0.552613	0.000945	169.80807	0.542433	0.000936	169.80807	0.542433	0.000936	0.542433	0.000936	0.000936	0.000936
163	E	166.99655	0.768301	0.000584	167.09483	0.762525	0.000586	167.19164	0.756833	0.000586	167.19164	0.756833	0.000586	0.756833	0.000586	0.000586	0.000586
164	V	170.54352	0.561206	0.000855	170.71843	0.550871	0.000846	170.89033	0.540708	0.000838	170.89033	0.540708	0.000838	0.540708	0.000838	0.000838	0.000838
165	E	171.10392	0.560401	0.000805	171.26850	0.550073	0.000798	171.43025	0.539918	0.000790	171.43025	0.539918	0.000790	0.539918	0.000790	0.000790	0.000790
166	E	169.29828	0.766745	0.000486	169.37922	0.760967	0.000486	169.45895	0.755274	0.000486	169.45895	0.755274	0.000486	0.755274	0.000486	0.000486	0.000486
167	V	172.22500	0.558937	0.000707	172.36644	0.548622	0.000701	172.50791	0.538483	0.000694	172.50791	0.538483	0.000694	0.538483	0.000694	0.000694	0.000694
168	E	170.83044	0.765873	0.000420	170.89983	0.760094	0.000420	170.96817	0.754399	0.000421	170.96817	0.754399	0.000421	0.754399	0.000421	0.000421	0.000421
169	E	171.59593	0.765486	0.000387	171.65953	0.759706	0.000388	171.72219	0.754011	0.000388	171.72219	0.754011	0.000388	0.754011	0.000388	0.000388	0.000388
170	E	172.36106	0.765132	0.000354	172.41888	0.759351	0.000355	172.47584	0.753656	0.000355	172.47584	0.753656	0.000355	0.753656	0.000355	0.000355	0.000355
171	E	173.12587	0.764810	0.000322	173.17791	0.759029	0.000322	173.22918	0.753334	0.000322	173.22918	0.753334	0.000322	0.753334	0.000322	0.000322	0.000322
172	E	173.89039	0.764520	0.000290	173.93665	0.758739	0.000290	173.98222	0.753043	0.000291	173.98222	0.753043	0.000291	0.753043	0.000291	0.000291	0.000291
173	E	174.65465	0.764263	0.000257	174.69513	0.758481	0.000258	174.73500	0.752786	0.000257	174.73500	0.752786	0.000257	0.752786	0.000257	0.000257	0.000257
174	V	176.11927	0.555323	0.000374	176.19116	0.545043	0.000371	176.26181	0.539491	0.000366	176.26181	0.539491	0.000366	0.539491	0.000366	0.000366	0.000366
175	E	175.41869	0.764038	0.000225	175.45339	0.758256	0.000225	175.48756	0.752560	0.000226	175.48756	0.752560	0.000226	0.752560	0.000226	0.000226	0.000226
176	E	176.94622	0.763685	0.000160	176.98935	0.757902	0.000161	176.99214	0.752206	0.000161	176.99214	0.752206	0.000161	0.752206	0.000161	0.000161	0.000161
177	V	177.78346	0.763557	0.000128	177.82454	0.757774	0.000128	177.86490	0.752078	0.000128	177.86490	0.752078	0.000128	0.752078	0.000128	0.000128	0.000128
178	E	178.47324	0.763460	0.000097	178.48481	0.757677	0.000097	178.49620	0.751981	0.000097	178.49620	0.751981	0.000097	0.751981	0.000097	0.000097	0.000097
179	V	178.89192	0.763396	0.000064	178.91245	0.757613	0.000064	178.92653	0.753799	0.000064	178.92653	0.753799	0.000064	0.753799	0.000064	0.000064	0.000064
180	E	180.00000	0.763364	0.000032	180.00000	0.757581	0.000032	180.00000	0.751885	0.000032	180.00000	0.751885	0.000032	0.751885	0.000032	0.000032	0.000032
	V	180.00000	0.554018	0.000046	180.00000	0.543751	0.000046	180.00000	0.533662	0.000045	180.00000	0.533662	0.000045	0.533662	0.000045	0.000045	0.000045

ECCENTRICITY		0.34 1ST DIF.		2ND DIF.		0.35 1ST DIF.		2ND DIF.		0.36 1ST DIF.		2ND DIF.	
31	E	44.70333	1.323449	0.009549	0.009549	45.23901	1.332125	0.010127	0.010127	45.78310	1.340574	0.010726	0.010726
	V	60.73125	1.647178	0.023856	0.023856	61.96710	1.662323	0.025372	0.025372	63.22620	1.676654	0.026936	0.026936
32	E	46.01721	1.313878	0.009571	0.009571	46.56100	1.321989	0.010136	0.010136	47.11296	1.329856	0.010718	0.010718
	V	62.35469	1.623442	0.023736	0.023736	63.60423	1.637123	0.025200	0.025200	64.87615	1.649951	0.026703	0.026703
33	E	47.32151	1.304300	0.009578	0.009578	47.87286	1.311860	0.010129	0.010129	48.43212	1.319160	0.010696	0.010696
	V	63.95455	1.599859	0.023583	0.023583	65.21636	1.612132	0.024991	0.024991	66.49967	1.623517	0.026434	0.026434
34	E	48.61624	1.294728	0.009572	0.009572	49.17461	1.301750	0.010110	0.010110	49.74062	1.308500	0.010660	0.010660
	V	65.53101	1.576461	0.023398	0.023398	66.80374	1.587360	0.024752	0.024752	68.09705	1.597385	0.026132	0.026132
35	E	49.90141	1.285172	0.009556	0.009556	50.46628	1.291673	0.010077	0.010077	51.03851	1.297889	0.010611	0.010611
	V	67.08429	1.593277	0.023184	0.023184	68.36664	1.562898	0.024482	0.024482	69.68683	1.571582	0.025803	0.025803
36	E	51.17705	1.275644	0.009528	0.009528	51.74792	1.281638	0.010035	0.010035	52.32584	1.287339	0.010550	0.010550
	V	68.61462	1.530332	0.022945	0.022945	69.90535	1.538710	0.024188	0.024188	71.21477	1.546135	0.025447	0.025447
37	E	52.44321	1.266155	0.009489	0.009489	53.01958	1.271658	0.009980	0.009980	53.60270	1.276859	0.010480	0.010480
	V	70.12227	1.507649	0.022683	0.022683	71.42019	1.514839	0.023871	0.023871	72.73583	1.521065	0.025070	0.025070
38	E	53.69992	1.256713	0.009442	0.009442	54.28132	1.261741	0.009917	0.009917	54.86916	1.266460	0.010399	0.010399
	V	71.60751	1.485248	0.022401	0.022401	72.91149	1.491304	0.023535	0.023535	74.23222	1.496389	0.024676	0.024676
39	E	54.94725	1.247328	0.009385	0.009385	55.53322	1.255186	0.009845	0.009845	56.12531	1.256150	0.010310	0.010310
	V	73.07066	1.463147	0.022101	0.022101	74.37961	1.468122	0.023182	0.023182	75.70435	1.472125	0.024264	0.024264
40	E	56.18526	1.238007	0.009321	0.009321	56.77535	1.242131	0.009765	0.009765	57.37125	1.245936	0.010214	0.010214
	V	74.51202	1.441361	0.021786	0.021786	75.82492	1.445308	0.022814	0.022814	77.15263	1.448283	0.023842	0.023842
41	E	57.41402	1.228757	0.009250	0.009250	58.00780	1.232452	0.009679	0.009679	58.60708	1.235827	0.010109	0.010109
	V	75.93193	1.419903	0.021458	0.021458	77.24779	1.422872	0.022436	0.022436	78.57751	1.424875	0.023408	0.023408
42	E	58.63360	1.219586	0.009171	0.009171	59.23066	1.222867	0.009585	0.009585	59.83290	1.225827	0.010000	0.010000
	V	77.33071	1.398785	0.021118	0.021118	78.64862	1.400826	0.022046	0.022046	79.97942	1.401910	0.022965	0.022965
43	E	59.84410	1.210497	0.009089	0.009089	60.44405	1.213381	0.009486	0.009486	61.04884	1.215942	0.009885	0.009885
	V	78.70873	1.378015	0.020770	0.020770	80.02779	1.379177	0.021649	0.021649	81.35881	1.379392	0.022518	0.022518
44	E	61.04560	1.201498	0.008999	0.008999	61.64804	1.203999	0.009382	0.009382	62.25502	1.206177	0.009765	0.009765
	V	80.06633	1.357602	0.020413	0.020413	81.38573	1.357931	0.021246	0.021246	82.71613	1.357326	0.022066	0.022066
45	E	62.23819	1.192592	0.008906	0.008906	62.84277	1.194725	0.009274	0.009274	63.45156	1.196536	0.009641	0.009641
	V	81.04388	1.337551	0.020051	0.020051	82.72282	1.337092	0.020839	0.020839	84.05185	1.335714	0.021612	0.021612
46	E	63.42197	1.183785	0.008807	0.008807	64.02833	1.185563	0.009162	0.009162	64.63858	1.187023	0.009513	0.009513
	V	82.72175	1.317867	0.019684	0.019684	84.03948	1.316663	0.020429	0.020429	85.36641	1.314558	0.021156	0.021156
47	E	64.59705	1.175078	0.008707	0.008707	65.20485	1.176516	0.009047	0.009047	65.81622	1.177640	0.009383	0.009383
	V	84.02030	1.298554	0.019313	0.019313	85.33613	1.296647	0.020016	0.020016	86.66026	1.293858	0.020700	0.020700
48	E	65.76353	1.166477	0.008601	0.008601	66.37244	1.167588	0.008928	0.008928	66.98461	1.168389	0.009251	0.009251
	V	85.29991	1.279612	0.018942	0.018942	86.61317	1.277042	0.019605	0.019605	87.93387	1.273611	0.020247	0.020247
49	E	66.92151	1.157982	0.008495	0.008495	67.53122	1.158781	0.008807	0.008807	68.14388	1.159273	0.009116	0.009116
	V	86.56096	1.261043	0.018569	0.018569	87.87102	1.257849	0.019193	0.019193	89.18769	1.253815	0.019796	0.019796
50	E	68.07111	1.149598	0.008384	0.008384	68.68131	1.150097	0.008684	0.008684	69.29418	1.150294	0.008979	0.008979
	V	87.80380	1.242848	0.018195	0.018195	89.11009	1.239066	0.018783	0.018783	90.42215	1.234466	0.019349	0.019349
51	E	69.21243	1.141325	0.008273	0.008273	69.82285	1.141537	0.008560	0.008560	70.43563	1.141452	0.008842	0.008842
	V	89.02883	1.225025	0.017823	0.017823	90.33078	1.220690	0.018376	0.018376	91.63772	1.215560	0.018906	0.018906
52	E	70.34560	1.133165	0.008160	0.008160	70.95595	1.133102	0.008435	0.008435	71.56838	1.132748	0.008704	0.008704
	V	90.23640	1.207572	0.017453	0.017453	91.53349	1.202718	0.017972	0.017972	92.83481	1.197093	0.018467	0.018467
53	E	71.47072	1.125121	0.008044	0.008044	72.08075	1.124794	0.008308	0.008308	72.69256	1.124182	0.008566	0.008566
	V	91.42689	1.190487	0.017085	0.017085	92.71864	1.185146	0.017572	0.017572	94.01387	1.179057	0.018036	0.018036
54	E	72.58791	1.117192	0.007929	0.007929	73.19736	1.116613	0.008181	0.008181	73.80831	1.115756	0.008426	0.008426
	V	92.60065	1.173767	0.016720	0.016720	93.88661	1.167969	0.017177	0.017177	95.17531	1.161448	0.017609	0.017609
55	E	73.69729	1.109380	0.007812	0.007812	74.30592	1.108560	0.008053	0.008053	74.91578	1.107468	0.008288	0.008288
	V	93.75806	1.157408	0.016359	0.016359	95.03779	1.151182	0.016787	0.016787	96.31957	1.144257	0.017191	0.017191
56	E	74.79897	1.101684	0.007696	0.007696	75.40656	1.100655	0.007925	0.007925	76.01510	1.099319	0.008149	0.008149
	V	94.89947	1.141407	0.016001	0.016001	96.17257	1.134780	0.016402	0.016402	97.44705	1.127479	0.016778	0.016778
57	E	75.89308	1.094106	0.007578	0.007578	76.49939	1.092837	0.007798	0.007798	77.10641	1.091307	0.008012	0.008012
	V	96.02523	1.125759	0.015648	0.015648	97.29133	1.118757	0.016023	0.016023	98.55816	1.111106	0.016373	0.016373
58	E	76.97973	1.086646	0.007460	0.007460	77.58456	1.085166	0.007671	0.007671	78.18984	1.083433	0.007874	0.007874
	V	97.13568	1.110458	0.015301	0.015301	98.33943	1.103107	0.015650	0.015650	99.65329	1.095130	0.015976	0.015976
59	E	78.05903	1.079303	0.007343	0.007343	78.66218	1.077622	0.007544	0.007544	79.26554	1.075696	0.007737	0.007737
	V	98.23119	1.095501	0.014957	0.014957	99.48226	1.087823	0.015284	0.015284	100.73283	1.079543	0.015587	0.015587
60	E	79.13111	1.072077	0.007226	0.007226	79.73238	1.070204	0.007418	0.007418	80.33363	1.068093	0.007603	0.007603
	V	99.31207	1.080881	0.014620	0.014620	100.55515	1.072898	0.014925	0.014925	101.79717	1.064338	0.015205	0.015205

ECCENTRICITY M		0.34		2ND DIF.		0.35		2ND DIF.		0.36		2ND DIF.	
		1ST DIF.		2ND DIF.		1ST DIF.		2ND DIF.		1ST DIF.		2ND DIF.	
61	E	80.19608	1.064968	0.007109	80.79530	1.062912	0.007292	81.39425	1.060625	0.007468			
	V	100.37866	1.066593	0.014288	101.61348	1.036327	0.014571	102.84667	1.049506	0.014832			
62	E	81.25405	1.057975	0.006993	81.85104	1.055744	0.007168	82.44754	1.035290	0.007335			
	V	101.43129	1.052632	0.013961	102.65758	1.044101	0.014226	103.88171	1.035040	0.014466			
63	E	82.30515	1.051097	0.006878	82.89974	1.048700	0.007044	83.49363	1.046086	0.007204			
	V	102.47028	1.038990	0.013642	103.68780	1.030214	0.013887	104.90264	1.020930	0.014110			
64	E	83.34948	1.044334	0.006763	83.94152	1.041778	0.006922	84.53264	1.039012	0.007074			
	V	103.49595	1.025663	0.013327	104.70445	1.016659	0.013555	105.90981	1.007170	0.013760			
65	E	84.38717	1.037685	0.006649	84.97649	1.034977	0.006801	85.56471	1.032067	0.006945			
	V	104.50859	1.012644	0.013019	105.70788	1.003428	0.013231	106.90356	0.993750	0.013420			
66	E	85.41831	1.031148	0.006537	86.00479	1.028296	0.006681	86.58996	1.025249	0.006818			
	V	105.50852	0.999927	0.012717	106.69840	0.990516	0.012912	107.88422	0.980663	0.013087			
67	E	86.44304	1.024724	0.006424	87.02652	1.021734	0.006562	87.60852	1.018556	0.006693			
	V	106.49602	0.987505	0.012422	107.67631	0.977913	0.012603	108.85213	0.967901	0.012762			
68	E	87.46145	1.018410	0.006314	88.04181	1.015288	0.006446	88.62050	1.011987	0.006569			
	V	107.47139	0.975373	0.012132	108.64193	0.965614	0.012299	109.80758	0.955455	0.012446			
69	E	88.47365	1.012205	0.006205	89.05077	1.008959	0.006329	89.62604	1.005539	0.006448			
	V	108.43492	0.963525	0.011848	109.59554	0.953612	0.012002	110.75090	0.943319	0.012136			
70	E	89.47976	1.006109	0.006096	90.05351	1.002743	0.006216	90.62525	0.992111	0.006328			
	V	109.38687	0.951954	0.011571	110.53744	0.941899	0.011713	111.68238	0.931484	0.011835			
71	E	90.47988	1.000120	0.005989	91.05015	0.930469	0.006103	91.61825	0.993002	0.006209			
	V	110.32753	0.940653	0.011301	111.46791	0.904691	0.011430	112.60233	0.919943	0.011541			
72	E	91.47412	0.994236	0.005884	92.04080	0.900649	0.005991	92.60516	0.986909	0.006093			
	V	111.25714	0.929618	0.011035	112.38722	0.919315	0.011154	113.51101	0.908688	0.011255			
73	E	92.46257	0.988457	0.005779	93.02557	0.984767	0.005882	93.58609	0.980930	0.005979			
	V	112.17599	0.918842	0.010776	113.29565	0.908430	0.010885	114.40873	0.897712	0.010976			
74	E	93.44536	0.982781	0.005676	94.00456	0.978992	0.005775	94.56116	0.975064	0.005866			
	V	113.08431	0.908319	0.010523	114.19346	0.897808	0.010622	115.29573	0.887007	0.010705			
75	E	94.42256	0.977206	0.005575	94.97789	0.973324	0.005668	95.53047	0.969309	0.005755			
	V	114.98235	0.898044	0.010275	115.08090	0.887442	0.010366	116.17230	0.876568	0.010439			
76	E	95.39429	0.971731	0.005475	95.94565	0.967761	0.005563	96.49413	0.963663	0.005646			
	V	114.87036	0.888010	0.010034	115.95823	0.877326	0.010116	117.03869	0.866386	0.010182			
77	E	96.36065	0.966355	0.005376	96.90795	0.962301	0.005460	97.45225	0.958125	0.005538			
	V	115.74857	0.878212	0.009798	116.82568	0.867454	0.009872	117.89514	0.856456	0.009930			
78	E	97.32172	0.961077	0.005278	97.86489	0.956942	0.005359	98.40495	0.952692	0.005433			
	V	116.61722	0.868644	0.009568	117.68350	0.857819	0.009635	118.74191	0.846770	0.009686			
79	E	98.27762	0.955894	0.005183	98.81657	0.951683	0.005259	99.35231	0.947362	0.005330			
	V	117.47652	0.859301	0.009343	118.53191	0.848416	0.009403	119.57924	0.837322	0.009448			
80	E	99.22842	0.950806	0.005088	99.76309	0.946522	0.005161	100.29444	0.942135	0.005227			
	V	118.32669	0.850177	0.009124	119.37115	0.839240	0.009176	120.40734	0.828107	0.009215			
81	E	100.17424	0.945811	0.004995	100.70455	0.941458	0.005064	101.23145	0.937007	0.005128			
	V	119.16796	0.841268	0.008909	120.20144	0.830284	0.008956	121.22646	0.819118	0.008989			
82	E	101.11514	0.940908	0.004903	101.64104	0.936489	0.004969	102.16343	0.931978	0.005029			
	V	120.00053	0.832568	0.008700	121.02298	0.821542	0.008742	122.03681	0.810348	0.008770			
83	E	102.05124	0.936095	0.004813	102.57265	0.931613	0.004876	103.09047	0.927045	0.004933			
	V	120.82460	0.824071	0.008497	121.83599	0.813010	0.008532	122.83860	0.801793	0.008555			
84	E	102.98261	0.931370	0.004725	103.49948	0.926830	0.004783	104.01268	0.922208	0.004837			
	V	121.64037	0.815775	0.008296	122.64067	0.804682	0.008328	123.63205	0.793447	0.008366			
85	E	103.90934	0.926734	0.004636	104.42162	0.922137	0.004693	104.93014	0.917463	0.004745			
	V	122.44805	0.807672	0.008103	123.43723	0.796554	0.008128	124.41735	0.785304	0.008143			
86	E	104.83152	0.922183	0.004551	105.33915	0.917532	0.004605	105.84295	0.912810	0.004653			
	V	123.24781	0.799759	0.007913	124.22585	0.788619	0.007935	125.19471	0.777359	0.007945			
87	E	105.74924	0.917717	0.004466	106.25217	0.913016	0.004516	106.75120	0.908248	0.004562			
	V	124.03984	0.792032	0.007727	125.00572	0.780874	0.007745	125.96432	0.769607	0.007752			
88	E	106.66258	0.913334	0.004383	107.16075	0.908585	0.004431	107.65498	0.903773	0.004475			
	V	124.82432	0.784485	0.007547	125.76003	0.773313	0.007561	126.72636	0.762043	0.007564			
89	E	107.57161	0.909033	0.004301	108.06499	0.904238	0.004347	108.55436	0.899386	0.004387			
	V	125.60144	0.777114	0.007371	126.54596	0.765932	0.007381	127.48102	0.754661	0.007382			
90	E	108.47642	0.904813	0.004220	108.96497	0.899975	0.004263	109.44944	0.895083	0.004303			
	V	126.37135	0.769916	0.007198	127.30469	0.758726	0.007206	128.22848	0.747458	0.007203			

ECCENTRICITY		18°DIF.	2ND DIF.	19°DIF.	2ND DIF.	0°DIF.	2ND DIF.
91	E	109.37710	0.900673	109.86076	0.895793	110.34031	0.890865
	V	127.13424	0.762885	128.05638	0.751692	128.96891	0.740429
92	E	110.27371	0.896610	110.75245	0.891692	111.22704	0.886728
	V	127.89026	0.756019	128.80120	0.744824	129.70248	0.733569
93	E	111.16633	0.892625	111.64012	0.887669	112.10971	0.882673
	V	128.63957	0.749313	129.53932	0.738119	130.42935	0.726875
94	E	112.05505	0.888715	112.52384	0.883724	112.98841	0.878696
	V	129.38233	0.742763	130.27090	0.731573	131.14959	0.720341
95	E	112.93993	0.884880	113.40370	0.879855	113.86320	0.874798
	V	130.11870	0.736365	130.99608	0.725181	131.86366	0.713964
96	E	113.82104	0.881117	114.27976	0.876061	114.73418	0.870977
	V	130.84681	0.730117	131.71502	0.718941	132.57140	0.707739
97	E	114.69847	0.877427	115.15210	0.872341	115.60141	0.867231
	V	131.57283	0.724014	132.42787	0.712848	133.27306	0.701664
98	E	115.57228	0.873808	116.02079	0.868694	116.46497	0.863558
	V	132.29088	0.718053	133.13477	0.706899	133.96879	0.695734
99	E	116.44254	0.870258	116.88591	0.865117	117.32493	0.859959
	V	133.00311	0.712232	133.83586	0.701091	134.65874	0.689946
100	E	117.30931	0.866777	117.74752	0.861611	118.18136	0.856430
	V	133.70966	0.706545	134.53127	0.695419	135.34304	0.684296
101	E	118.17268	0.863364	118.60570	0.858174	119.03433	0.852972
	V	134.10655	0.700991	135.22116	0.689882	136.02182	0.678782
102	E	119.03269	0.860017	119.46050	0.854804	119.88391	0.849584
	V	135.10622	0.695567	135.90563	0.684475	136.69522	0.673399
103	E	119.88943	0.856736	120.31200	0.851501	120.73018	0.846262
	V	135.79649	0.690269	136.58483	0.679195	137.36336	0.668144
104	E	120.74295	0.853519	121.16027	0.848264	121.57319	0.843308
	V	136.48158	0.685095	137.25887	0.674041	138.02638	0.663015
105	E	121.59331	0.850365	122.05036	0.845091	122.41300	0.839819
	V	137.16162	0.680042	137.92788	0.669008	138.68439	0.658009
106	E	122.44059	0.847274	122.84734	0.841982	123.24970	0.833695
	V	137.83673	0.675106	138.59197	0.664094	139.33751	0.653122
107	E	123.28483	0.844244	123.68628	0.838935	124.08333	0.833634
	V	138.50702	0.670287	139.25127	0.659237	139.98586	0.648352
108	E	124.12611	0.841275	124.52223	0.835930	124.91397	0.830636
	V	139.17260	0.665580	139.90588	0.654613	140.62955	0.643696
109	E	124.96447	0.838365	125.35525	0.833026	125.74167	0.827698
	V	139.83358	0.660984	140.55592	0.650041	141.26871	0.639152
110	E	125.79998	0.835514	126.18541	0.830160	126.56649	0.824822
	V	140.49008	0.656496	141.20150	0.645577	141.90342	0.634717
111	E	126.63271	0.832721	127.01277	0.827334	127.38849	0.822004
	V	141.14219	0.652114	141.84272	0.641230	142.53381	0.630388
112	E	127.46269	0.829985	127.83737	0.824605	128.20774	0.819246
	V	141.79003	0.647836	142.47968	0.636966	143.15998	0.626164
113	E	128.29000	0.827305	128.65928	0.821914	129.02428	0.816544
	V	142.43369	0.643659	143.11250	0.632814	143.78202	0.622041
114	E	129.11468	0.824680	129.47856	0.819278	129.83818	0.813900
	V	143.07327	0.639581	143.74126	0.628762	144.40004	0.618019
115	E	129.93678	0.822110	130.29526	0.816697	130.64949	0.813311
	V	143.70887	0.635601	144.36607	0.624807	145.01413	0.614093
116	E	130.75638	0.819593	131.10945	0.814171	131.45837	0.808777
	V	144.34058	0.631715	144.98702	0.620948	145.62339	0.610264
117	E	131.57351	0.817130	131.92113	0.811698	132.26457	0.806297
	V	144.96851	0.627923	145.60420	0.617182	146.23052	0.606527
118	E	132.38823	0.814718	132.73041	0.809278	133.06844	0.803871
	V	145.59273	0.624223	146.21770	0.613507	146.83380	0.602882
119	E	133.20058	0.812358	133.53360	0.806910	134.38699	0.801497
	V	146.21334	0.620612	146.82763	0.609922	147.43313	0.599327
120	E	134.01063	0.810049	134.34191	0.804594	134.66911	0.799175
	V	146.83043	0.617089	147.43405	0.606425	148.02899	0.595859

ECCENTRICITY M		0.34			0.35			0.36		
		1ST DIF.	2ND DIF.	0.34 1ST DIF.	2ND DIF.	0.35 1ST DIF.	2ND DIF.	0.36 1ST DIF.	2ND DIF.	0.36 1ST DIF.
121	E	134.81842	0.807790	0.002259	0.002259	135.14424	0.802328	0.002266	0.002266	135.46601
122	V	147.44408	0.613652	0.003437	0.003437	148.03707	0.603014	0.003411	0.003411	148.62147
123	V	135.62400	0.805581	0.002209	0.002209	135.94435	0.800112	0.002216	0.002216	136.26070
124	V	148.05438	0.610299	0.003353	0.003353	148.63675	0.599688	0.003326	0.003326	149.21065
125	E	136.42742	0.803420	0.002161	0.002161	136.74230	0.797945	0.002167	0.002167	137.05321
126	V	148.66141	0.607029	0.003270	0.003270	149.23320	0.596444	0.003244	0.003244	149.79661
127	E	137.22873	0.801307	0.002113	0.002113	137.53812	0.795827	0.002118	0.002118	137.84360
128	V	149.26525	0.603841	0.003188	0.003188	149.82648	0.593281	0.003163	0.003163	150.37944
129	E	138.02797	0.799242	0.002065	0.002065	138.33188	0.793756	0.002071	0.002071	138.63192
130	V	149.86598	0.600732	0.003109	0.003109	150.41668	0.590198	0.003083	0.003083	150.95922
131	E	138.82520	0.797223	0.002019	0.002019	139.12361	0.791733	0.002023	0.002023	139.41821
132	V	150.46368	0.597702	0.003030	0.003030	151.00387	0.587193	0.003005	0.003005	151.53601
133	E	139.62045	0.795251	0.001972	0.001972	139.91337	0.789756	0.001977	0.001977	140.20251
134	V	151.05843	0.594748	0.002954	0.002954	151.58814	0.584265	0.002928	0.002928	152.10991
135	E	140.41377	0.793324	0.001927	0.001927	140.70119	0.787826	0.001930	0.001930	140.98489
136	V	151.65030	0.591870	0.002878	0.002878	152.16955	0.581412	0.002853	0.002853	152.68098
137	E	141.20521	0.791443	0.001881	0.001881	141.488713	0.785941	0.001885	0.001885	141.76538
138	V	152.23937	0.589066	0.002804	0.002804	152.74818	0.578631	0.002779	0.002779	153.24931
139	E	141.99482	0.789606	0.001837	0.001837	142.27123	0.784101	0.001840	0.001840	142.54403
140	V	152.82570	0.586335	0.002731	0.002731	153.32411	0.575927	0.002706	0.002706	153.81495
141	E	142.78263	0.787814	0.001792	0.001792	143.05354	0.782305	0.001796	0.001796	143.32088
142	V	153.40938	0.583676	0.002659	0.002659	153.89740	0.573292	0.002635	0.002635	154.37798
143	E	143.56870	0.786065	0.001749	0.001749	143.83409	0.780553	0.001752	0.001752	144.09597
144	V	153.99047	0.581087	0.002589	0.002589	154.46813	0.570727	0.002565	0.002565	154.93847
145	E	144.35306	0.784359	0.001706	0.001706	144.61294	0.778844	0.001709	0.001709	144.86936
146	V	154.56903	0.578567	0.002520	0.002520	155.03636	0.568231	0.002496	0.002496	155.49649
147	E	145.13575	0.782695	0.001664	0.001664	145.39012	0.777178	0.001666	0.001666	145.64108
148	V	155.14515	0.576116	0.002451	0.002451	155.60216	0.565802	0.002429	0.002429	156.05211
149	E	145.91683	0.781074	0.001621	0.001621	146.16567	0.775554	0.001624	0.001624	146.41117
150	V	155.71888	0.573731	0.002385	0.002385	156.16560	0.563441	0.002361	0.002361	156.60340
151	E	146.69632	0.779494	0.001580	0.001580	146.93964	0.773973	0.001581	0.001581	147.17968
152	V	156.29029	0.571413	0.002318	0.002318	156.72265	0.561145	0.002296	0.002296	157.15641
153	E	147.47428	0.777955	0.001539	0.001539	147.71207	0.772432	0.001541	0.001541	147.94665
154	V	156.85945	0.569159	0.002254	0.002254	157.28566	0.558913	0.002232	0.002232	157.70321
155	E	148.25073	0.776457	0.001498	0.001498	148.48301	0.770933	0.001499	0.001499	148.71212
156	V	157.42642	0.566969	0.002190	0.002190	157.84241	0.556746	0.002167	0.002167	158.25187
157	E	149.02573	0.775000	0.001457	0.001457	149.25248	0.769474	0.001459	0.001459	149.47613
158	V	157.99126	0.564843	0.002126	0.002126	158.359705	0.554640	0.002106	0.002106	158.79844
159	E	149.79931	0.773582	0.001418	0.001418	150.02054	0.768035	0.001419	0.001419	150.23872
160	V	158.55404	0.562778	0.002065	0.002065	158.94964	0.552597	0.002043	0.002043	159.33900
161	E	150.57152	0.772204	0.001378	0.001378	150.78721	0.766676	0.001379	0.001379	150.99994
162	V	159.11482	0.560775	0.002003	0.002003	159.50026	0.550614	0.001983	0.001983	150.87959
163	E	151.34238	0.770865	0.001339	0.001339	151.55255	0.765336	0.001340	0.001340	151.75981
164	V	159.67365	0.558831	0.001944	0.001944	160.04895	0.548691	0.001923	0.001923	160.41829
165	E	152.11195	0.769564	0.001301	0.001301	152.31658	0.764034	0.001302	0.001302	152.51838
166	V	160.23059	0.556948	0.001883	0.001883	160.559577	0.546826	0.001865	0.001865	160.95813
167	E	161.89072	0.768302	0.001262	0.001262	163.07935	0.762772	0.001262	0.001262	162.55519
168	V	160.78052	0.555123	0.001825	0.001825	161.14079	0.545021	0.001805	0.001805	161.49020
169	E	153.64733	0.767079	0.001223	0.001223	153.84090	0.761547	0.001225	0.001225	154.03177
170	V	161.33907	0.553355	0.001768	0.001768	161.68407	0.543272	0.001749	0.001749	162.02353
171	E	154.41322	0.765892	0.001187	0.001187	154.60126	0.760361	0.001186	0.001186	154.78867
172	V	161.89072	0.551645	0.001710	0.001710	162.22565	0.541580	0.001692	0.001692	162.55519
173	E	155.17796	0.764744	0.001148	0.001148	155.36047	0.759212	0.001149	0.001149	155.54042
174	V	162.44071	0.549992	0.001653	0.001653	162.76559	0.539945	0.001635	0.001635	163.08524
175	E	155.94160	0.763632	0.001112	0.001112	156.11897	0.758099	0.001111	0.001111	156.29306
176	V	162.98910	0.548394	0.001598	0.001598	163.30396	0.538364	0.001581	0.001581	163.61372
177	E	156.70415	0.762557	0.001075	0.001075	156.87560	0.757034	0.001075	0.001075	157.04462
178	V	163.53596	0.546851	0.001543	0.001543	163.84079	0.536838	0.001526	0.001526	164.14070
179	E	163.46567	0.761518	0.001039	0.001039	163.63198	0.755986	0.001038	0.001038	157.79314
180	V	164.08132	0.545362	0.001489	0.001489	164.37616	0.535366	0.001472	0.001472	164.66622

ECCENTRICITY M	Q ₃₄ 1ST DIF.	2ND DIF.	Q ₃₅ 1ST DIF.	2ND DIF.	Q ₃₆ 1ST DIF.	2ND DIF.
151	E 158.22619	0.760516	0.001002	0.001002	0.754983	0.001003
	E 164.62525	0.543928	0.001434	0.001434	0.533947	0.001419
152	V 158.98574	0.759550	0.000966	0.000966	0.754017	0.000966
	V 165.16779	0.542546	0.001382	0.001382	0.532581	0.001366
153	E 159.74436	0.758619	0.000931	0.000931	0.754036	0.000931
	V 165.70901	0.541217	0.001329	0.001329	0.531267	0.001314
154	E 160.50208	0.757724	0.000895	0.000895	0.752191	0.000895
	V 166.24895	0.539941	0.001276	0.001262	0.530005	0.001262
155	E 161.25894	0.756863	0.000861	0.000861	0.751331	0.000860
	V 166.78766	0.538715	0.001226	0.001226	0.528793	0.001212
156	E 162.01498	0.756038	0.000825	0.000825	0.750506	0.000825
	V 167.32521	0.537541	0.001174	0.001174	0.527632	0.001161
157	E 162.77023	0.755248	0.000790	0.000790	0.749715	0.000791
	V 167.86162	0.536418	0.001123	0.001123	0.526522	0.001110
158	E 163.52472	0.754491	0.000757	0.000757	0.748959	0.000756
	V 168.39697	0.535344	0.001074	0.001074	0.525460	0.001062
159	E 164.27849	0.753770	0.000721	0.000721	0.748238	0.000721
	V 168.93129	0.534320	0.001024	0.001024	0.524448	0.001012
160	E 165.03157	0.753082	0.000688	0.000688	0.747550	0.000688
	V 169.46463	0.533346	0.000974	0.000974	0.523485	0.000963
161	E 165.78400	0.752428	0.000654	0.000654	0.746897	0.000653
	V 169.99706	0.532420	0.000926	0.000926	0.522570	0.000915
162	E 166.53581	0.751808	0.000620	0.000620	0.746277	0.000620
	V 170.52860	0.531543	0.000877	0.000877	0.521703	0.000867
163	E 167.28703	0.751222	0.000586	0.000586	0.745691	0.000586
	V 171.05931	0.530714	0.000829	0.000829	0.520884	0.000819
164	E 168.03770	0.750669	0.000553	0.000553	0.745138	0.000553
	V 171.58924	0.529933	0.000781	0.000781	0.520112	0.000772
165	E 168.78785	0.750149	0.000520	0.000520	0.744619	0.000519
	V 172.11844	0.529200	0.000733	0.000733	0.519387	0.000725
166	E 169.53751	0.749662	0.000487	0.000487	0.744132	0.000487
	V 172.64696	0.528513	0.000687	0.000687	0.518709	0.000678
167	E 170.28672	0.749209	0.000453	0.000453	0.743679	0.000453
	V 173.17483	0.527874	0.000639	0.000639	0.518077	0.000632
168	E 171.03551	0.748788	0.000421	0.000421	0.743259	0.000420
	V 173.70211	0.527281	0.000593	0.000593	0.517492	0.000585
169	E 171.78391	0.748400	0.000388	0.000388	0.742871	0.000388
	V 174.22885	0.526735	0.000546	0.000546	0.516952	0.000540
170	E 172.53195	0.748045	0.000355	0.000355	0.742516	0.000355
	V 174.75508	0.526235	0.000500	0.000500	0.516458	0.000494
171	E 173.27967	0.747722	0.000323	0.000323	0.742193	0.000323
	V 175.28086	0.525781	0.000454	0.000454	0.516010	0.000448
172	E 174.02711	0.747432	0.000290	0.000290	0.741904	0.000289
	V 175.80624	0.525373	0.000408	0.000408	0.515607	0.000403
173	E 174.77428	0.747175	0.000257	0.000257	0.741646	0.000258
	V 176.33125	0.525011	0.000362	0.000362	0.515249	0.000358
174	E 175.52123	0.746949	0.000226	0.000226	0.741421	0.000225
	V 176.85594	0.524695	0.000316	0.000316	0.514945	0.000313
175	E 176.26799	0.746756	0.000193	0.000193	0.741228	0.000193
	V 177.38037	0.524423	0.000272	0.000272	0.514668	0.000268
176	E 177.01458	0.746595	0.000161	0.000161	0.741067	0.000161
	V 177.90456	0.524198	0.000225	0.000225	0.514445	0.000223
177	E 177.76105	0.746467	0.000128	0.000128	0.740939	0.000128
	V 178.42858	0.524017	0.000181	0.000181	0.514266	0.000179
178	E 178.50742	0.746370	0.000097	0.000097	0.740842	0.000097
	V 178.95246	0.523882	0.000135	0.000135	0.514133	0.000133
179	E 179.25373	0.746306	0.000064	0.000064	0.740778	0.000064
	V 179.47625	0.523791	0.000091	0.000091	0.514044	0.000089
180	E 180.00000	0.746274	0.000032	0.000032	0.740766	0.000032
	V 180.00000	0.523746	0.000045	0.000045	0.513999	0.000045

ECCENTRICITY
M

		0.37 1ST DIF.	2ND DIF.	0.38 1ST DIF.	2ND DIF.	0.39 1ST DIF.	2ND DIF.
1	E	1.58718		1.61277		1.63920	
2	E	2.34037		2.40592		2.47421	
3	E	3.17365		3.22476		3.27755	
4	E	4.67863		4.80951		4.94584	
5	E	4.75869		4.83119		4.91418	
6	E	7.01269		7.20845		7.41231	
7	E	6.34161		6.44329		6.54827	
8	E	9.34049		9.60046		9.87111	
9	E	7.92170		8.04831		8.17898	
10	E	11.66000		11.98329		12.31976	
11	E	9.49829		9.64950		9.80551	
12	E	13.96925		14.35479		14.75586	
13	E	11.07073		11.24615		11.42707	
14	E	16.26633		16.71284		17.17712	
15	E	12.63837		12.83756		13.04292	
16	E	18.54942		19.05545		19.58133	
17	E	14.20059		14.42306		14.65232	
18	E	20.81676		21.38071		21.96642	
19	E	15.75681		16.00203		16.25460	
20	E	23.06671		23.68682		24.33042	
21	E	17.30646		17.57384		17.84910	
22	E	25.29771		25.97210		26.67153	
23	E	18.84902		19.13794		19.43521	
24	E	21.51086		22.24088		22.98807	
25	E	31.86314		32.68803		33.54148	
26	E	23.42924		23.77871		24.13771	
27	E	34.00501		34.87571		35.77576	
28	E	24.93871		25.30701		25.68499	
29	E	36.12183		37.03607		37.98026	
30	E	26.43891		26.86255		27.28216	
31	E	38.21270		39.16820		40.15407	
32	E	27.92949		28.33311		28.74675	
33	E	40.21686		41.27132		42.29838	
34	E	29.41016		29.83031		30.26057	
35	E	42.31366		43.34476		44.40656	
36	E	30.88064		31.31655		31.76262	
37	E	44.32252		45.38799		46.48408	
38	E	32.34069		32.71799		33.25268	
39	E	46.30300		47.40058		48.52856	
40	E	33.79011		34.25537		34.73054	
41	E	48.25475		49.38219		50.53970	
42	E	35.22872		35.70736		36.19605	
43	E	50.17747		51.33261		52.51735	
44	E	36.65637		37.14775		37.64907	
45	E	52.07101		53.25171		54.46144	
46	E	38.07293		38.57632		39.08949	
47	E	53.93526		54.99298		56.37199	
48	E	39.47831		39.99298		40.51727	
49	E	55.77018		56.99584		58.24911	
50	E	40.87242		41.39768		41.93234	
51	E	57.57582		58.82102		60.09300	
52	E	42.25523		42.79038		43.33470	
53	E	59.35229		60.61515		61.90390	
54	E	43.62670		44.17107		44.72435	
55	E	61.09973		62.37846		63.68213	
56	E	44.98682		45.53976		46.10133	
57	E	62.81838		64.11125		65.42806	
58	E						
59	E						
60	E						
61	E						
62	E						
63	E						
64	E						
65	E						
66	E						
67	E						
68	E						
69	E						
70	E						
71	E						
72	E						
73	E						
74	E						
75	E						
76	E						
77	E						
78	E						
79	E						
80	E						
81	E						
82	E						
83	E						
84	E						
85	E						
86	E						
87	E						
88	E						
89	E						
90	E						
91	E						
92	E						
93	E						
94	E						
95	E						
96	E						
97	E						
98	E						
99	E						
100	E						

ECCENTRICITY

			0.37 1ST DIF.	2ND DIF.		0.38 1ST DIF.	2ND DIF.		0.39 1ST DIF.	2ND DIF.
31	E	46.33559	1.348776	0.011342	46.89646	1.356708	0.011976	47.46568	1.364348	0.012628
	V	64.50848	1.690101	0.028544	65.81384	1.702593	0.030193	67.14212	1.714058	0.031877
32	E	47.67305	1.337459	0.011317	48.24124	1.344776	0.011932	48.81746	1.351786	0.012562
	V	66.17034	1.661857	0.028244	67.48662	1.672776	0.029817	68.82476	1.682641	0.031417
33	E	48.99923	1.326182	0.011277	49.57414	1.332904	0.011872	50.15677	1.339308	0.012478
	V	67.80429	1.633951	0.027906	69.12999	1.643373	0.029403	70.47648	1.651719	0.030922
34	E	50.31419	1.314959	0.011223	50.89525	1.321108	0.011796	51.48370	1.326927	0.012381
	V	69.41070	1.606415	0.027536	70.74440	1.614413	0.028960	72.09780	1.621323	0.030396
35	E	51.61800	1.303804	0.011155	52.23033	1.309399	0.011709	52.79836	1.314657	0.012270
	V	70.98998	1.579276	0.027139	72.33063	1.585925	0.028488	73.68928	1.591478	0.029845
36	E	52.91072	1.292728	0.011076	53.50244	1.297791	0.011608	54.10086	1.302510	0.012147
	V	72.54254	1.552558	0.026718	73.88826	1.557929	0.027996	75.25148	1.562203	0.029275
37	E	54.119247	1.281742	0.010986	54.78873	1.286292	0.011499	55.39136	1.290495	0.012015
	V	74.06882	1.526281	0.026277	75.41870	1.530445	0.027484	76.78500	1.533515	0.028688
38	E	55.46332	1.270855	0.010887	56.06365	1.274914	0.011378	56.66998	1.278621	0.011874
	V	75.56928	1.500463	0.025818	76.92219	1.503487	0.026958	78.29043	1.505426	0.028089
39	E	56.772340	1.260076	0.010779	57.32731	1.263663	0.011251	57.93688	1.266897	0.011724
	V	77.04440	1.475118	0.025345	78.39926	1.477068	0.026419	79.76837	1.477944	0.027482
40	E	57.97281	1.249412	0.010664	58.57986	1.252546	0.011177	59.19221	1.255328	0.011569
	V	78.49465	1.450255	0.024863	79.85045	1.451195	0.025873	81.21945	1.451076	0.028668
41	E	59.21168	1.238870	0.010542	59.82143	1.241571	0.010975	60.43613	1.243921	0.011407
	V	79.92054	1.425885	0.024370	81.27633	1.4230742	0.010829	82.64427	1.424824	0.026252
42	E	60.44013	1.228455	0.010415	61.05217	1.230742	0.010829	61.66881	1.232680	0.011241
	V	81.32255	1.402011	0.023874	82.67743	1.401110	0.024765	84.04346	1.399188	0.025636
43	E	61.65831	1.218172	0.010283	62.27223	1.220064	0.010678	62.89042	1.221610	0.011070
	V	82.70119	1.378639	0.023372	84.05434	1.376903	0.024207	85.41763	1.374169	0.025019
44	E	62.86633	1.208027	0.010145	63.48177	1.209540	0.010524	64.10113	1.210712	0.010898
	V	84.05696	1.355771	0.022868	85.40759	1.353252	0.023651	86.76739	1.349761	0.024408
45	E	64.06435	1.198021	0.010006	64.68095	1.199174	0.010366	65.30112	1.199990	0.010722
	V	85.33937	1.333406	0.022365	86.73775	1.330156	0.023096	88.09335	1.325960	0.023801
46	E	65.25251	1.188160	0.009861	65.86992	1.188968	0.010206	66.49056	1.189445	0.010545
	V	86.70191	1.311543	0.021863	88.04536	1.307611	0.022545	89.39610	1.302759	0.023201
47	E	66.43096	1.178443	0.009717	67.04884	1.178924	0.010044	67.66964	1.179079	0.010366
	V	87.99209	1.290180	0.021363	89.33097	1.285611	0.022000	90.67626	1.280150	0.022609
48	E	67.59983	1.168875	0.009568	68.21788	1.169043	0.009881	68.83854	1.168892	0.010187
	V	89.26140	1.269314	0.020866	90.59512	1.264151	0.021460	91.93438	1.258125	0.022025
49	E	68.75929	1.159436	0.009419	69.37721	1.159326	0.009717	69.93742	1.158885	0.010007
	V	90.51034	1.248939	0.020375	91.83834	1.243224	0.020927	93.17105	1.236674	0.021451
50	E	69.90948	1.150187	0.009269	70.52698	1.149774	0.009552	71.14648	1.149056	0.009829
	V	91.73939	1.229050	0.019889	93.06116	1.222821	0.020403	94.38684	1.215787	0.020887
51	E	71.05054	1.141088	0.009119	71.66737	1.140386	0.009388	72.28588	1.139407	0.009649
	V	92.94903	1.209640	0.019410	94.26410	1.202934	0.019887	95.58230	1.195453	0.020334
52	E	72.18264	1.132101	0.008967	72.79853	1.131163	0.009223	73.41582	1.129935	0.009472
	V	94.13973	1.190702	0.018938	95.44765	1.183554	0.019380	96.75796	1.175661	0.019792
53	E	73.30593	1.123285	0.008816	73.92064	1.122104	0.009059	74.53646	1.120640	0.009295
	V	95.31196	1.172229	0.018473	96.61233	1.164672	0.018882	97.91435	1.156398	0.019263
54	E	74.42055	1.114620	0.008665	75.03384	1.113207	0.008897	75.64798	1.111520	0.009120
	V	96.46618	1.154213	0.018016	97.75860	1.146277	0.018395	99.05201	1.137652	0.018746
55	E	75.52665	1.106104	0.008516	76.13832	1.104472	0.008735	76.75055	1.102574	0.008946
	V	97.60282	1.136645	0.017568	98.88696	1.128359	0.017918	100.17142	1.119413	0.018239
56	E	76.62439	1.097739	0.008365	77.23421	1.095898	0.008574	77.84435	1.093799	0.008775
	V	98.72234	1.119517	0.017128	99.99787	1.110907	0.017452	101.27308	1.101666	0.008775
57	E	77.71391	1.089522	0.008217	78.32170	1.087483	0.008415	78.92955	1.085195	0.008604
	V	99.82516	1.102819	0.016698	101.09178	1.093912	0.016995	102.35749	1.084401	0.017265
58	E	78.79537	1.081452	0.008070	79.40092	1.079225	0.008258	80.06630	1.076757	0.008438
	V	100.91170	1.086543	0.016276	102.16914	1.077361	0.016551	103.42509	1.067604	0.016797
59	E	79.86889	1.073528	0.007924	80.47204	1.071123	0.008102	81.07479	1.068485	0.008272
	V	101.98238	1.070679	0.015864	103.23039	1.066146	0.016115	104.47635	1.051263	0.016341
60	E	80.93464	1.065748	0.007780	81.53522	1.063174	0.007949	82.13517	1.060376	0.008109
	V	103.03760	1.055217	0.015462	104.27594	1.045554	0.015692	105.51172	1.035366	0.015897

ECCENTRICITY M		0.37				0.38				0.39			
		1ST DIF.				2ND DIF.				1ST DIF.			
61	E	81.99275	1.058112	0.007636	82.59060	0.007796	83.18759	1.052427	0.007949	0.007991	0.007991	0.007949	0.007949
	V	104.07774	1.040150	0.015067	105.30622	0.015279	106.53162	1.015901	0.015465	0.015465	0.015465	0.015465	0.015465
62	E	83.04337	1.050617	0.007495	83.63833	0.007673	84.23223	1.004636	0.007791	0.007791	0.007791	0.007791	0.007791
	V	105.10321	1.025466	0.014684	106.32161	0.014877	107.53648	1.004857	0.015044	0.015044	0.015044	0.015044	0.015044
63	E	84.08663	1.043261	0.007356	84.67856	0.007500	85.28923	1.003700	0.007636	0.007636	0.007636	0.007636	0.007636
	V	106.11437	1.011157	0.014309	107.32253	0.014484	108.52670	0.990221	0.014636	0.014636	0.014636	0.014636	0.014636
64	E	85.12268	1.036044	0.007217	85.71144	0.007354	86.29875	1.029518	0.007482	0.007482	0.007482	0.007482	0.007482
	V	107.11158	0.997214	0.013943	108.30934	0.014103	109.50268	0.975982	0.014239	0.014239	0.014239	0.014239	0.014239
65	E	86.15164	1.028962	0.007082	86.73710	0.007212	87.32093	1.022185	0.007333	0.007333	0.007333	0.007333	0.007333
	V	108.09521	1.028367	0.013587	109.28422	0.013731	110.46481	0.962128	0.013854	0.013854	0.013854	0.013854	0.013854
66	E	87.17365	1.022013	0.006949	87.75570	0.007070	88.33593	1.014999	0.007186	0.007186	0.007186	0.007186	0.007186
	V	109.06560	0.970388	0.013239	110.24213	0.013370	111.41346	0.948649	0.013479	0.013479	0.013479	0.013479	0.013479
67	E	88.18885	1.015197	0.006816	88.76736	0.006932	89.34389	1.007959	0.007040	0.007040	0.007040	0.007040	0.007040
	V	110.02308	0.957487	0.012901	111.18882	0.013019	112.34899	0.935534	0.013115	0.013115	0.013115	0.013115	0.013115
68	E	89.19736	1.008511	0.006686	89.77222	0.006797	90.34495	1.001060	0.006899	0.006899	0.006899	0.006899	0.006899
	V	110.96800	0.944916	0.012571	112.12283	0.012677	113.27176	0.922772	0.012762	0.012762	0.012762	0.012762	0.012762
69	E	90.19931	1.001952	0.006559	90.77043	0.006662	91.33925	0.994301	0.006759	0.006759	0.006759	0.006759	0.006759
	V	111.90067	0.932265	0.012251	113.04450	0.012344	114.18211	0.910353	0.012419	0.012419	0.012419	0.012419	0.012419
70	E	91.19483	0.995519	0.006433	91.76210	0.006531	92.32693	0.987679	0.006622	0.006622	0.006622	0.006622	0.006622
	V	112.82139	0.920727	0.011938	113.95415	0.012022	115.08038	0.898266	0.012087	0.012087	0.012087	0.012087	0.012087
71	E	92.18404	0.989210	0.006309	92.74737	0.006403	93.30812	0.981190	0.006489	0.006489	0.006489	0.006489	0.006489
	V	113.73049	0.909094	0.011633	114.85209	0.011707	115.96688	0.886503	0.011763	0.011763	0.011763	0.011763	0.011763
72	E	93.16706	0.983022	0.006188	93.72637	0.006275	94.28295	0.974834	0.006356	0.006356	0.006356	0.006356	0.006356
	V	114.62824	0.897756	0.011338	115.73863	0.011403	116.84194	0.875054	0.011449	0.011449	0.011449	0.011449	0.011449
73	E	94.14401	0.976594	0.006068	94.69921	0.006152	95.25156	0.968606	0.006228	0.006228	0.006228	0.006228	0.006228
	V	115.51495	0.887556	0.011050	116.61406	0.011106	117.70585	0.863909	0.011145	0.011145	0.011145	0.011145	0.011145
74	E	95.111502	0.971003	0.005951	95.66602	0.006029	96.21406	0.962504	0.006102	0.006102	0.006102	0.006102	0.006102
	V	116.39088	0.875937	0.010769	117.47868	0.010817	118.55891	0.853059	0.010850	0.010850	0.010850	0.010850	0.010850
75	E	96.08018	0.965167	0.005836	96.62693	0.005910	97.17059	0.956527	0.005977	0.005977	0.005977	0.005977	0.005977
	V	117.25632	0.865640	0.010497	118.33276	0.010538	119.40140	0.842496	0.010563	0.010563	0.010563	0.010563	0.010563
76	E	97.03963	0.959445	0.005722	97.58204	0.005792	98.12126	0.950670	0.005857	0.005857	0.005857	0.005857	0.005857
	V	118.11153	0.855209	0.010231	119.17657	0.010266	120.23361	0.832211	0.010285	0.010285	0.010285	0.010285	0.010285
77	E	97.99346	0.953834	0.005611	98.53147	0.005677	99.06619	0.944933	0.005737	0.005737	0.005737	0.005737	0.005737
	V	118.95677	0.845235	0.009974	120.01038	0.010001	121.05581	0.822197	0.010014	0.010014	0.010014	0.010014	0.010014
78	E	98.94180	0.948333	0.005501	99.47534	0.005564	100.00550	0.939312	0.005621	0.005621	0.005621	0.005621	0.005621
	V	119.79228	0.835513	0.009722	120.83444	0.009744	121.86825	0.812445	0.009752	0.009752	0.009752	0.009752	0.009752
79	E	99.88474	0.942939	0.005394	100.41376	0.005453	100.93931	0.933806	0.005506	0.005506	0.005506	0.005506	0.005506
	V	120.61832	0.826035	0.009478	121.64901	0.009495	122.67120	0.802947	0.009498	0.009498	0.009498	0.009498	0.009498
80	E	100.82238	0.937650	0.005289	101.34684	0.005345	101.86772	0.928411	0.005395	0.005395	0.005395	0.005395	0.005395
	V	121.43511	0.816795	0.009240	122.45433	0.009252	123.46490	0.793696	0.009251	0.009251	0.009251	0.009251	0.009251
81	E	101.75485	0.932464	0.005186	102.27467	0.005238	102.79085	0.923126	0.005285	0.005285	0.005285	0.005285	0.005285
	V	122.24290	0.807785	0.009010	123.25064	0.009016	124.24958	0.784685	0.009011	0.009011	0.009011	0.009011	0.009011
82	E	102.68223	0.927380	0.005084	103.19737	0.005133	103.70880	0.917948	0.005178	0.005178	0.005178	0.005178	0.005178
	V	123.04190	0.799001	0.008784	124.03815	0.008787	125.02549	0.775907	0.008778	0.008778	0.008778	0.008778	0.008778
83	E	103.60462	0.922396	0.004984	104.11504	0.005031	104.62167	0.912876	0.005072	0.005072	0.005072	0.005072	0.005072
	V	123.83233	0.790435	0.008566	124.81710	0.008565	125.79285	0.767356	0.008551	0.008551	0.008551	0.008551	0.008551
84	E	104.52213	0.917509	0.004887	105.02778	0.004931	105.52958	0.907906	0.004970	0.004970	0.004970	0.004970	0.004970
	V	124.61442	0.782082	0.008353	125.58771	0.008348	126.55187	0.759024	0.008332	0.008332	0.008332	0.008332	0.008332
85	E	105.43485	0.912719	0.004790	105.93569	0.004832	106.43262	0.903037	0.004869	0.004869	0.004869	0.004869	0.004869
	V	125.38835	0.773937	0.008145	126.35017	0.008137	127.30277	0.750905	0.008119	0.008119	0.008119	0.008119	0.008119
86	E	106.34288	0.908022	0.004697	106.83887	0.004735	107.33088	0.898268	0.004769	0.004769	0.004769	0.004769	0.004769
	V	126.15435	0.765992	0.007945	127.10471	0.007933	128.04577	0.742993	0.007912	0.007912	0.007912	0.007912	0.007912
87	E	107.24629	0.903418	0.004604	107.73740	0.004641	108.22448	0.893595	0.004673	0.004673	0.004673	0.004673	0.004673
	V	126.91259	0.758244	0.007748	127.85151	0.007734	128.78105	0.735283	0.007710	0.007710	0.007710	0.007710	0.007710
88	E	108.14520	0.898905	0.004513	108.63138	0.004548	109.11349	0.889017	0.004578	0.004578	0.004578	0.004578	0.004578
	V	127.66328	0.750687	0.007557	128.59076	0.007541	129.50882	0.727769	0.007514	0.007514	0.007514	0.007514	0.007514
89	E	109.03968	0.894480	0.004425	109.52091	0.004456	109.99803	0.884532	0.004485	0.004485	0.004485	0.004485	0.004485
	V	128.40659	0.743315	0.007372	129.32267	0.007352	130.22926	0.720444	0.007325	0.007325	0.007325	0.007325	0.007325
90	E	109.92962	0.890143	0.004337	110.40607	0.004368	110.87817	0.880139	0.004393	0.004393	0.004393	0.004393	0.004393
	V	129.14272	0.736125	0.007190	130.04741	0.007169	130.94257	0.713305	0.007139	0.007139	0.007139	0.007139	0.007139

ECCENTRICITY		0.37	0.38	0.39	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
M		1ST DIF.	1ST DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
91	E	110.81571	0.885892	111.28695	0.004251	0.880881	0.004279	111.75400	0.004305
	V	129.87183	0.729110	130.76515	0.007015	0.717745	0.006992	131.64891	0.006960
92	E	111.69744	0.881725	112.16364	0.004167	0.876687	0.004194	112.62562	0.004217
	V	130.59409	0.722267	131.47608	0.006843	0.710927	0.006818	132.34847	0.006785
93	E	112.57508	0.877641	113.03621	0.004084	0.872577	0.004110	113.49310	0.004130
	V	131.30968	0.715591	132.18036	0.006676	0.704278	0.006649	133.04142	0.006615
94	E	113.44872	0.873637	113.90477	0.004004	0.868550	0.004027	114.35634	0.004047
	V	132.01876	0.709077	132.87815	0.006514	0.697792	0.006486	133.72791	0.006450
95	E	114.31843	0.869713	114.76937	0.003924	0.864605	0.003945	115.21602	0.003964
	V	132.72148	0.702722	133.56961	0.006355	0.691467	0.006325	134.40812	0.006289
96	E	115.18430	0.865868	115.63011	0.003845	0.860739	0.003866	116.07161	0.003884
	V	133.41800	0.696521	134.25491	0.006201	0.685297	0.006170	135.08219	0.006133
97	E	116.04640	0.862099	116.48706	0.003769	0.856950	0.003789	116.92340	0.003804
	V	134.10848	0.690471	134.93419	0.006050	0.679278	0.006019	135.75028	0.005981
98	E	116.90480	0.858405	117.34030	0.003694	0.853239	0.003711	117.77146	0.003726
	V	134.79304	0.684567	135.60760	0.005904	0.673407	0.005871	136.41254	0.005832
99	E	117.75959	0.854786	118.18990	0.003619	0.849603	0.003636	118.61598	0.003649
	V	135.47185	0.678806	136.27527	0.005761	0.667679	0.005728	137.06912	0.005688
100	E	118.61083	0.851239	119.03594	0.003547	0.846041	0.003562	119.45671	0.003575
	V	136.14503	0.673185	136.93737	0.005621	0.652092	0.005587	137.72014	0.005547
101	E	119.45859	0.847764	119.87849	0.003475	0.842551	0.003490	120.29405	0.003502
	V	136.81273	0.667699	137.59401	0.005486	0.656641	0.005451	138.36576	0.005414
102	E	120.30295	0.844358	120.71762	0.003406	0.839132	0.003419	121.12796	0.003429
	V	137.47508	0.662346	138.24533	0.005353	0.651323	0.005318	139.00609	0.005278
103	E	121.14397	0.841022	121.55344	0.003336	0.835783	0.003349	121.95851	0.003358
	V	138.13220	0.657122	138.89147	0.005224	0.646135	0.005188	139.64128	0.005147
104	E	121.98173	0.837753	122.38591	0.003269	0.832503	0.003280	122.78577	0.003289
	V	138.78423	0.652024	139.53254	0.005098	0.641073	0.005062	140.27145	0.005021
105	E	122.81628	0.834551	123.21520	0.003202	0.829290	0.003213	123.60980	0.003221
	V	139.43127	0.647049	140.16867	0.004975	0.636135	0.004938	140.89672	0.004897
106	E	123.64769	0.831415	124.04134	0.003136	0.826144	0.003146	124.43069	0.003154
	V	140.07347	0.642194	140.79999	0.004855	0.631316	0.004819	141.51721	0.004777
107	E	124.47603	0.828342	124.86441	0.003073	0.823062	0.003082	125.24849	0.003088
	V	140.71092	0.637456	141.42661	0.004738	0.626616	0.004700	142.13305	0.004660
108	E	125.30137	0.825333	125.68445	0.003009	0.820045	0.003017	126.06326	0.003024
	V	141.34376	0.632833	142.04864	0.004623	0.622030	0.004586	142.74434	0.004545
109	E	126.12375	0.822386	126.50154	0.002947	0.817090	0.002955	126.87507	0.002960
	V	141.97208	0.628322	142.66619	0.004511	0.617555	0.004475	143.35119	0.004434
110	E	126.94325	0.819500	127.31574	0.002886	0.814197	0.002893	127.68399	0.002897
	V	142.59600	0.623920	143.27938	0.004402	0.613190	0.004365	143.95321	0.004324
111	E	127.75993	0.816674	128.12710	0.002826	0.811365	0.002832	128.49007	0.002837
	V	143.21562	0.619624	143.88831	0.004296	0.608932	0.004258	144.55204	0.004218
112	E	128.57383	0.813907	128.93570	0.002767	0.808593	0.002772	129.29337	0.002776
	V	143.83106	0.615433	144.49309	0.004191	0.604777	0.004155	145.14623	0.004114
113	E	129.38503	0.811199	129.74158	0.002708	0.805879	0.002714	130.09396	0.002716
	V	144.44240	0.611344	145.09381	0.004089	0.600725	0.004052	145.73642	0.004013
114	E	130.19358	0.808548	130.54480	0.002651	0.803223	0.002656	130.89189	0.002659
	V	145.04976	0.607354	145.69059	0.003990	0.596772	0.003953	146.32269	0.003913
115	E	130.99953	0.805953	131.34542	0.002595	0.800624	0.002599	131.68721	0.002601
	V	145.65322	0.603462	146.28350	0.003892	0.592916	0.003856	146.90515	0.003816
116	E	131.80295	0.803413	132.14350	0.002540	0.798081	0.002543	132.47999	0.002545
	V	146.25288	0.599665	146.87266	0.003797	0.589155	0.003761	147.48389	0.003732
117	E	132.60387	0.800928	132.95391	0.002485	0.795593	0.002488	133.27028	0.002490
	V	146.84884	0.595962	147.55815	0.003703	0.585487	0.003668	148.05899	0.003629
118	E	133.40237	0.798497	133.73226	0.002431	0.793159	0.002434	134.05814	0.002435
	V	147.46119	0.592349	148.04006	0.003613	0.581911	0.003576	148.63056	0.003539
119	E	134.19849	0.796119	134.52304	0.002378	0.790779	0.002380	134.84362	0.002381
	V	148.03002	0.588826	148.61848	0.003523	0.578423	0.003488	149.19868	0.003450
120	E	134.99228	0.793794	135.31149	0.002325	0.788451	0.002328	135.62676	0.002329
	V	148.61541	0.583391	149.19350	0.003435	0.575022	0.003401	149.76343	0.003363

ECCENTRICITY M	0.37		0.38		0.39				
	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.			
121	E 135.78380	0.791519	0.002275	136.09766	0.786174	0.002277	136.40764	0.780871	0.002276
121	V 149.19745	0.582041	0.003350	149.76521	0.571707	0.003315	150.32491	0.561476	0.003278
122	E 136.57310	0.789295	0.002224	136.488161	0.783949	0.002225	137.18628	0.778646	0.002225
122	V 149.77623	0.537875	0.003266	150.33368	0.568475	0.003232	150.88319	0.558280	0.003196
123	E 137.36022	0.787122	0.002173	137.66338	0.781774	0.002175	137.96275	0.776471	0.002175
123	V 150.35182	0.575592	0.003183	150.89901	0.565325	0.003150	151.43835	0.555166	0.003114
124	E 138.14522	0.784997	0.002125	138.46303	0.779649	0.002125	138.73710	0.774346	0.002125
124	V 150.92431	0.572488	0.003104	151.46126	0.562255	0.003070	151.99048	0.552132	0.003034
125	E 138.92814	0.782921	0.002076	139.22060	0.777572	0.002077	139.50937	0.772270	0.002076
125	V 151.49377	0.589464	0.003024	152.02053	0.559264	0.002991	152.53966	0.549175	0.002957
126	E 139.70903	0.780893	0.002028	139.99615	0.775543	0.002029	140.27961	0.770242	0.002028
126	V 152.06029	0.566518	0.002946	152.57688	0.556350	0.002914	153.08595	0.546295	0.002880
127	E 140.48794	0.778912	0.001981	140.76971	0.773562	0.001981	141.04787	0.768262	0.001980
127	V 152.62394	0.563647	0.002871	153.13039	0.553511	0.002839	153.62944	0.543490	0.002800
128	E 141.26492	0.776977	0.001935	141.54134	0.771628	0.001934	141.81420	0.766329	0.001933
128	V 153.18479	0.560851	0.002796	153.68114	0.550746	0.002765	154.17020	0.540758	0.002732
129	E 142.04001	0.775089	0.001888	142.31108	0.767940	0.001888	142.57864	0.764442	0.001887
129	V 153.74292	0.558128	0.002723	154.22919	0.548054	0.002692	154.70830	0.538099	0.002659
130	E 142.81326	0.773246	0.001843	143.07898	0.767897	0.001843	143.34125	0.762601	0.001841
130	V 154.29839	0.555477	0.002651	154.77462	0.545433	0.002621	155.24381	0.535510	0.002589
131	E 143.58470	0.771448	0.001798	143.84507	0.766100	0.001797	144.10205	0.760805	0.001796
131	V 154.85129	0.552896	0.002581	155.31750	0.542883	0.002550	155.77680	0.532990	0.002520
132	E 144.35439	0.769694	0.001754	144.60942	0.764346	0.001754	144.86110	0.759054	0.001751
132	V 155.40167	0.550385	0.002511	155.85791	0.540401	0.002482	156.30734	0.530539	0.002451
133	E 145.12238	0.767983	0.001711	145.37206	0.762637	0.001709	145.61845	0.757346	0.001708
133	V 155.94962	0.547941	0.002444	156.39589	0.537986	0.002415	156.83549	0.528155	0.002384
134	E 145.88869	0.766316	0.001667	146.13303	0.760971	0.001666	146.37413	0.755682	0.001664
134	V 156.49518	0.545565	0.002376	156.93153	0.535638	0.002348	157.36133	0.525836	0.002319
135	E 146.45539	0.764691	0.001625	146.89238	0.759347	0.001624	147.12819	0.754060	0.001622
135	V 157.03843	0.543259	0.002311	157.46489	0.533355	0.002283	157.88491	0.523582	0.002254
136	E 147.41650	0.763104	0.001582	147.65014	0.757766	0.001581	147.88067	0.752481	0.001579
136	V 157.57944	0.541008	0.002246	157.99602	0.531136	0.002219	158.40631	0.521392	0.002190
137	E 148.17806	0.761568	0.001541	148.40637	0.756226	0.001540	148.63162	0.750944	0.001537
137	V 158.11827	0.538826	0.002182	158.52500	0.528980	0.002156	158.92557	0.519263	0.002129
138	E 148.93813	0.760069	0.001499	149.16110	0.754728	0.001498	149.38107	0.749448	0.001496
138	V 158.56498	0.536706	0.002120	159.05189	0.526886	0.002094	159.44277	0.517197	0.002066
139	E 149.69674	0.758610	0.001459	149.91437	0.753271	0.001457	150.12906	0.747993	0.001455
139	V 159.18962	0.534648	0.002058	159.57672	0.524853	0.002033	159.95796	0.516570	0.002007
140	E 150.45393	0.757191	0.001419	150.66622	0.751854	0.001417	150.87564	0.746578	0.001415
140	V 159.72227	0.532650	0.001998	160.09962	0.522880	0.001973	160.47120	0.513243	0.001947
141	E 151.20975	0.755813	0.001378	151.41670	0.750477	0.001377	151.62084	0.7445204	0.001374
141	V 160.25299	0.530712	0.001938	160.62059	0.520967	0.001913	160.98255	0.511355	0.001888
142	E 151.96422	0.754473	0.001340	152.16584	0.749139	0.001338	152.36471	0.743868	0.001336
142	V 160.78182	0.528833	0.001879	161.13970	0.519111	0.001856	161.49208	0.509524	0.001831
143	E 152.71739	0.753173	0.001300	152.91368	0.747841	0.001298	153.10728	0.742572	0.001296
143	V 161.30883	0.527012	0.001821	161.65701	0.517313	0.001798	161.99983	0.507750	0.001774
144	E 153.46931	0.751912	0.001261	153.66026	0.746581	0.001260	153.99863	0.741315	0.001257
144	V 161.83408	0.525248	0.001764	162.17258	0.515572	0.001741	162.50586	0.506031	0.001719
145	E 154.21999	0.750689	0.001223	154.40562	0.745359	0.001222	154.88829	0.740095	0.001220
145	V 162.35762	0.523540	0.001708	162.68647	0.513886	0.001686	163.01023	0.504368	0.001663
146	E 154.86950	0.749503	0.001186	155.14979	0.744176	0.001183	155.32761	0.738914	0.001181
146	V 162.87951	0.521888	0.001652	163.19872	0.512255	0.001631	163.51299	0.502760	0.001608
147	E 155.71785	0.748355	0.001148	155.89282	0.743030	0.001146	156.06538	0.737771	0.001143
147	V 163.39980	0.520291	0.001597	163.70940	0.510679	0.001576	164.01204	0.501205	0.001555
148	E 156.46510	0.747245	0.001110	156.63474	0.741921	0.001109	156.80409	0.736664	0.001107
148	V 163.91855	0.518748	0.001543	164.21856	0.509156	0.001523	164.51389	0.499702	0.001503
149	E 157.21671	0.746171	0.001074	157.37559	0.740849	0.001072	157.53763	0.735595	0.001069
149	V 164.83580	0.517259	0.001489	164.72624	0.507686	0.001470	165.01215	0.498252	0.001450
150	E 157.95640	0.745134	0.001037	158.11541	0.739814	0.001035	158.27920	0.734562	0.001033
150	V 164.95163	0.515822	0.001437	165.23251	0.506268	0.001418	165.50700	0.496854	0.001398

ECCENTRICITY M	1st DIF.	2ND DIF.	1st DIF.	2ND DIF.	1st DIF.	2ND DIF.
151	E 158.70054	0.744134	0.001000	0.158.85422	0.738815	0.000999
	V 165.46606	0.514437	0.001385	165.73741	0.504901	0.001367
152	E 159.44371	0.743169	0.000965	159.59207	0.737852	0.000963
	V 165.97917	0.513104	0.001333	166.24100	0.503586	0.001315
153	E 160.18595	0.742240	0.000929	160.32900	0.736924	0.000928
	V 166.49099	0.511822	0.001282	166.74332	0.502321	0.001265
154	E 160.92729	0.741347	0.000893	161.06503	0.736033	0.000891
	V 167.00158	0.510591	0.001231	167.24443	0.501106	0.001215
155	E 161.66778	0.740488	0.000859	161.80021	0.735176	0.000857
	V 167.51099	0.509409	0.001182	167.74437	0.499940	0.001166
156	E 162.40745	0.739665	0.000823	162.53456	0.734354	0.000822
	V 168.01927	0.508277	0.001132	168.24319	0.498823	0.001117
157	E 163.14632	0.738876	0.000789	163.26813	0.733567	0.000787
	V 168.52646	0.507194	0.001083	168.74095	0.497755	0.001068
158	E 163.88445	0.738122	0.000754	164.00094	0.732815	0.000752
	V 169.03262	0.506159	0.001035	164.43948	0.496734	0.001021
159	E 164.62185	0.737402	0.000720	164.73304	0.732096	0.000719
	V 169.53779	0.505173	0.000986	169.73344	0.495761	0.000973
160	E 165.35856	0.736717	0.000685	165.46445	0.731412	0.000684
	V 170.04203	0.504234	0.000939	170.22827	0.494834	0.000927
161	E 166.09463	0.736065	0.000652	166.19521	0.730762	0.000650
	V 170.54537	0.503342	0.000892	170.72223	0.493954	0.000880
162	E 166.83008	0.735447	0.000618	166.92536	0.730125	0.000617
	V 171.04787	0.502497	0.000845	171.21535	0.493121	0.000833
163	E 167.56494	0.734862	0.000585	167.65492	0.729562	0.000583
	V 171.54956	0.501698	0.000799	171.70768	0.492333	0.000788
164	E 168.29925	0.734311	0.000551	168.38393	0.729012	0.000550
	V 172.05051	0.500946	0.000752	172.19927	0.491591	0.000742
165	E 169.03304	0.733793	0.000518	169.11242	0.728495	0.000517
	V 172.55075	0.500239	0.000707	172.69017	0.490895	0.000696
166	E 169.76635	0.733308	0.000485	169.84044	0.728011	0.000484
	V 173.05033	0.499578	0.000661	173.18041	0.490243	0.000652
167	E 170.49921	0.732856	0.000452	170.56800	0.727560	0.000451
	V 173.54929	0.498963	0.000615	173.67005	0.489636	0.000607
168	E 171.23164	0.732437	0.000419	171.29514	0.727142	0.000418
	V 174.04768	0.498392	0.000571	174.15912	0.489073	0.000563
169	E 171.96369	0.732050	0.000387	172.02189	0.726756	0.000386
	V 174.54555	0.497866	0.000526	174.64767	0.488554	0.000519
170	E 172.69539	0.731697	0.000353	172.74830	0.726403	0.000353
	V 175.04293	0.497385	0.000481	175.13575	0.488080	0.000474
171	E 173.42677	0.731375	0.000322	173.47438	0.726082	0.000321
	V 175.53988	0.496948	0.000437	175.62340	0.487649	0.000431
172	E 174.15785	0.731086	0.000289	174.20017	0.725794	0.000288
	V 176.03644	0.496555	0.000393	176.11066	0.487262	0.000387
173	E 174.88868	0.730829	0.000257	174.92571	0.725538	0.000256
	V 176.53264	0.496207	0.000348	176.59758	0.486918	0.000344
174	E 175.61929	0.730605	0.000224	175.65102	0.725314	0.000224
	V 177.02855	0.495902	0.000305	177.08420	0.486661	0.000301
175	E 176.34970	0.730413	0.000192	176.37615	0.725122	0.000192
	V 177.52419	0.495641	0.000261	177.57056	0.486360	0.000257
176	E 177.07995	0.730252	0.000161	177.10111	0.724962	0.000160
	V 178.01961	0.495423	0.000218	178.05670	0.486145	0.000215
177	E 177.81008	0.730124	0.000128	177.82594	0.724835	0.000127
	V 178.51486	0.495250	0.000173	178.54268	0.485974	0.000171
178	E 178.54010	0.730028	0.000096	178.55068	0.724739	0.000096
	V 179.00998	0.495119	0.000131	179.02852	0.485846	0.000128
179	E 179.27007	0.729964	0.000064	179.27536	0.724675	0.000064
	V 179.50501	0.495033	0.000086	179.51428	0.485760	0.000086
180	E 180.00000	0.729932	0.000032	180.00000	0.724643	0.000032
	V 180.00000	0.494989	0.000044	180.00000	0.485717	0.000043

ECCENTRICITY M	0.40			0.41			0.42		
	1ST DIF.	2ND DIF.	2ND DIF.	1ST DIF.	2ND DIF.	2ND DIF.	1ST DIF.	2ND DIF.	2ND DIF.
1	E 1.66651		1.69474			1.72395			
2	V 2.54540		2.61965			2.69716			
3	V 3.33208		3.38846			3.44677			
4	V 5.08793		5.23612			5.39080			
5	V 4.99578		5.08012			5.16734			
6	V 7.62475		7.84626			8.07741			
7	V 6.65669		6.76873			6.88456			
8	V 10.15306		10.46697			10.75356			
9	E 8.31390		8.45329			8.59735			
10	V 12.67014		13.03524			13.41591			
11	V 9.96654		10.13284			10.30466			
12	V 15.17335		15.60815			16.06127			
13	V 11.61376		11.80847			12.00549			
14	V 17.66014		18.16292			18.68656			
15	V 13.25473		13.47327			13.69886			
16	V 20.12812		20.69591			21.28891			
17	V 14.88867		15.13241			15.38387			
18	V 22.57501		23.20765			23.86560			
19	V 16.51485		16.78308			17.05966			
20	V 24.99869		25.69284			26.41417			
21	V 18.13256		18.42454			18.72541			
22	V 27.39720		28.15037			28.93233			
23	V 19.74115		20.05610			20.36040			
24	V 29.76876		30.57831			31.41803			
25	V 21.34002		21.67709			22.02394			
26	V 32.11172		32.97495			33.86946			
27	V 22.92860		23.28695			23.55541			
28	V 34.42465		35.33876			36.28503			
29	V 24.50640		24.88514			25.27426			
30	V 36.70627		37.66842			38.66337			
31	V 28.07294		28.47118			28.88000			
32	V 38.95547		39.96279			41.00334			
33	V 27.62783		28.04464			28.47219			
34	V 41.17130		42.22093			43.30399			
35	V 29.17068		29.60516			30.05046			
36	V 43.35299		44.44208			45.36460			
37	V 30.70119		31.15242			31.61450			
38	V 45.49990		46.62565			47.78462			
39	V 32.21908		32.68615			33.16405			
40	V 47.61156		48.77119			49.96368			
41	V 33.72412		34.20613			34.69889			
42	V 49.68762		50.87842			52.10158			
43	V 35.21613		35.71218			36.21886			
44	V 51.72786		52.94721			54.19827			
45	V 36.69493		37.20416			37.72385			
46	V 53.73218		54.97753			56.25382			
47	V 38.16044		38.68198			39.21378			
48	V 55.70058		56.96949			58.26845			
49	V 39.61255		40.14557			40.68862			
50	V 57.63319		58.92329			60.24247			
51	V 41.05122		41.59491			42.14638			
52	V 59.53019		60.83922			62.17628			
53	V 42.47644		43.03000			43.59305			
54	V 61.39186		62.71766			64.07040			
55	V 43.88820		44.45088			45.02273			
56	V 63.21855		64.55908			65.92538			
57	V 45.28653		45.85759			46.83749			
58	V 65.01067		66.36398			67.74186			
59	V 46.67150		47.25023			47.83745			
60	V 66.76869		68.13293			69.52053			

ECCENTRICITY		$0^{\circ}40'$	2ND DIF.	$0^{\circ}41'$	2ND DIF.	$0^{\circ}42'$	2ND DIF.
M		1ST DIF.		1ST DIF.		1ST DIF.	
31	E	48.04318	0.013296	48.52889	0.01378660	49.22274	0.013978
	V	1.371673		1.378660		1.385288	0.014673
32	E	68.49311	0.033592	69.86655	0.035331	71.26210	0.037090
	V	1.724424		1.733620		1.741575	0.041524
33	E	49.40164	0.013205	49.99369	0.013858	50.59350	0.014524
	V	1.358468		1.364802		1.370764	0.015249
34	E	70.18450	0.033040	71.56549	0.034681	72.96735	0.036326
	V	1.691384		1.698941		1.705249	0.037090
35	E	50.74702	0.013096	51.34477	0.013724	51.94991	0.014358
	V	1.345372		1.351078		1.356406	0.015082
36	E	71.84343	0.032454	73.23044	0.033994	74.63947	0.035537
	V	1.658930		1.664947		1.669712	0.036287
37	E	52.07942	0.012973	52.68228	0.013573	53.29214	0.014179
	V	1.332399		1.337505		1.342227	0.014894
38	E	73.47052	0.031840	74.86210	0.033286	76.27205	0.034726
	V	1.627090		1.631661		1.634986	0.035476
39	E	53.39898	0.012838	54.00637	0.013411	54.62038	0.013988
	V	1.319561		1.324094		1.328239	0.014673
40	E	75.06640	0.031203	76.46120	0.032557	77.87314	0.033900
	V	1.595887		1.599104		1.601086	0.034673
41	E	54.70585	0.012691	55.31723	0.013238	55.93483	0.013786
	V	1.306870		1.310856		1.314453	0.014453
42	E	76.63174	0.030550	78.02849	0.031815	79.44416	0.033064
	V	1.565337		1.567289		1.568022	0.033786
43	E	56.00018	0.012535	56.61503	0.013056	57.23571	0.013577
	V	1.319561		1.324094		1.328239	0.014292
44	E	78.16719	0.030884	79.56471	0.032224	80.97695	0.033900
	V	1.535453		1.536224		1.537577	0.034673
45	E	57.28215	0.012370	57.89996	0.012866	58.52322	0.013361
	V	1.281965		1.284934		1.287515	0.014082
46	E	79.67344	0.029208	81.07063	0.030308	82.48137	0.031386
	V	1.506245		1.505916		1.504412	0.032092
47	E	58.55192	0.012197	59.17222	0.012672	59.79760	0.013138
	V	1.262768		1.272264		1.274377	0.013865
48	E	81.15116	0.028527	82.54699	0.029551	83.95923	0.030547
	V	1.477718		1.476365		1.473865	0.031292
49	E	59.80966	0.012020	60.43202	0.012468	61.05906	0.012912
	V	1.257748		1.259796		1.261465	0.013631
50	E	82.60103	0.027844	83.99457	0.028794	85.39938	0.029715
	V	1.449874		1.447571		1.444150	0.030482
51	E	61.05557	0.011836	61.67956	0.012262	62.30784	0.012883
	V	1.245912		1.245534		1.244872	0.013577
52	E	84.02374	0.027161	85.41409	0.028043	86.81464	0.028893
	V	1.422713		1.419528		1.415257	0.029547
53	E	62.28984	0.011650	62.91504	0.012053	63.54418	0.012451
	V	1.234262		1.235481		1.236331	0.013138
54	E	85.41997	0.026481	86.80632	0.027298	88.20181	0.028081
	V	1.396232		1.392230		1.387176	0.028786
55	E	63.51264	0.011459	64.13868	0.011842	64.76859	0.012217
	V	1.222803		1.223639		1.224114	0.012912
56	E	86.79040	0.025805	88.17199	0.026560	89.56171	0.027282
	V	1.370427		1.365672		1.359894	0.027937
57	E	64.72418	0.011266	65.35069	0.011629	65.98042	0.011985
	V	1.211537		1.212010		1.212129	0.012695
58	E	88.13569	0.025138	89.51183	0.025835	90.89511	0.026497
	V	1.345289		1.339835		1.333397	0.027282
59	E	65.92464	0.011073	66.55128	0.011415	67.18080	0.011750
	V	1.200464		1.200595		1.200379	0.012451
60	E	89.45650	0.024477	90.82654	0.025120	92.20278	0.025727
	V	1.320812		1.314715		1.307670	0.026497
61	E	67.11423	0.010877	67.74067	0.011202	68.36966	0.011519
	V	1.189587		1.189393		1.188860	0.012292
62	E	90.75349	0.023826	92.11684	0.024419	93.48547	0.024975
	V	1.296986		1.290296		1.282695	0.025727
63	E	68.29313	0.010681	68.91908	0.010989	69.54723	0.011286
	V	1.178906		1.178404		1.177574	0.011985
64	E	92.02729	0.023187	93.38340	0.023731	94.74393	0.024240
	V	1.273799		1.266565		1.258455	0.024975
65	E	69.46155	0.010485	70.08671	0.010776	70.71375	0.011058
	V	1.168421		1.167628		1.166516	0.011750
66	E	93.27853	0.022558	94.62691	0.023059	95.97886	0.023523
	V	1.251241		1.243506		1.234932	0.024292
67	E	70.61969	0.010291	71.24377	0.010594	71.86944	0.010829
	V	1.158130		1.157084		1.155687	0.011519
68	E	94.50783	0.021943	95.84801	0.022401	97.19037	0.022824
	V	1.229298		1.221105		1.212108	0.023523
69	E	71.76772	0.0148034	72.39048	0.0146708	73.01452	0.015082
	V	1.148034		1.146708		1.145082	0.015786
70	E	95.71579	0.021340	97.04736	0.021759	98.38053	0.022143
	V	1.207958		1.199346		1.189965	0.022824
71	E	72.90585	0.009903	73.52704	0.010147	74.14922	0.010383
	V	1.138131		1.136561		1.134699	0.011058
72	E	96.90299	0.020750	98.22557	0.021133	99.54941	0.021482
	V	1.187208		1.178213		1.168483	0.022143
73	E	74.03427	0.009712	74.65366	0.009943	75.27375	0.010164
	V	1.128419		1.126618		1.124535	0.010829
74	E	98.07003	0.020174	99.38326	0.020524	100.69706	0.020839
	V	1.167034		1.157689		1.147644	0.021519
75	E	75.15317	0.009522	75.77054	0.009740	76.38834	0.009948
	V	1.118897		1.116878		1.114587	0.010673
76	E	99.21745	0.019613	100.52102	0.019931	101.82449	0.020215
	V	1.147421		1.137758		1.127429	0.020935
77	E	76.26273	0.009334	76.87787	0.009539	77.49319	0.009735
	V	1.109563		1.107339		1.104852	0.010482
78	E	100.34580	0.019065	101.63943	0.019353	102.93231	0.019610
	V	1.128356		1.118405		1.107819	0.020215
79	E	77.63314	0.009149	77.75787	0.009343	78.58851	0.009527
	V	1.100414		1.097996		1.095325	0.010292
80	E	101.45563	0.018532	102.73909	0.0189612	104.022110	0.0188796
	V	1.109824		1.099612		1.088603	0.019547
81	E	78.45459	0.008966	79.06472	0.009149	79.67452	0.009322
	V	1.091448		1.088847		1.086003	0.010082
82	E	102.54744	0.018012	103.82040	0.018248	105.09144	0.018454
	V	1.091812		1.081364		1.070342	0.019121
83	E	79.53725	0.008786	80.14461	0.008958	80.75140	0.009121
	V	1.082662		1.079889		1.076882	0.010082
84	E	103.62175	0.017507	104.88404	0.017720	106.14388	0.017903
	V	1.074305		1.063644		1.052439	0.010786
85	E	80.61131	0.008609	81.21572	0.008770	81.81936	0.008923
	V	1.074053		1.071119		1.067959	0.009673
86	E	104.67903	0.017016	105.93048	0.017207	107.17895	0.017369
	V	1.057289		1.046437		1.035070	0.018082
87	E	81.67693	0.008433	82.27826	0.008586	82.87859	0.008729
	V	1.065620		1.062533		1.059230	0.009482
88	E	105.71978	0.016539	106.96021	0.016709	108.19717	0.016852
	V	1.040750		1.029728		1.018218	0.017547
89	E	82.73428	0.008262	83.33232	0.008406	83.92928	0.008540
	V	1.057358		1.054127		1.050690	0.009292
90	E	106.74446	0.016075	107.97371	0.016227	109.19904	0.016352
	V	1.024675		1.013501		1.001866	0.017082

ECCENTRICITY		0.40		0.41		0.42	
M		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
61	E	83.78355	1.049266	0.008092	84.37828	1.045900	0.008227
	V	107.75351	1.009050	0.015625	108.97145	0.997741	0.015760
62	E	84.82489	1.004139	0.007927	85.47145	1.037846	0.008054
	V	108.74737	0.993862	0.015188	109.95389	0.982435	0.015306
63	E	85.85847	1.033576	0.007763	86.44609	1.029963	0.007883
	V	109.72647	0.979098	0.014764	110.92145	0.967567	0.014868
64	E	86.88444	1.025972	0.007604	87.46834	1.022247	0.007716
	V	110.69121	0.964746	0.014352	111.87458	0.953124	0.014443
65	E	87.90296	1.018526	0.007446	88.48304	1.014695	0.007552
	V	111.64201	0.950792	0.013954	112.81367	0.939093	0.014031
66	E	88.91420	1.011233	0.007293	89.49034	1.007304	0.007391
	V	112.57923	0.937226	0.013566	113.73913	0.925461	0.013632
67	E	89.91829	1.004092	0.007141	90.49041	1.000069	0.007235
	V	113.50327	0.924035	0.013191	114.65135	0.912215	0.013246
68	E	90.91539	0.997098	0.006994	91.44834	0.992988	0.007081
	V	114.41448	0.911208	0.012827	115.55069	0.899343	0.012872
69	E	91.90564	0.990250	0.006848	92.44694	0.986057	0.006931
	V	115.31321	0.898734	0.012474	116.43758	0.886832	0.012511
70	E	92.88918	0.983543	0.006707	93.44873	0.979274	0.006783
	V	116.19981	0.886601	0.012133	117.31219	0.874672	0.012160
71	E	93.86616	0.976976	0.006567	94.42136	0.972634	0.006640
	V	117.07461	0.874800	0.011801	118.17505	0.862851	0.011821
72	E	94.83670	0.970545	0.006431	95.38750	0.966135	0.006499
	V	117.93793	0.863321	0.011479	119.02641	0.851359	0.011492
73	E	95.80095	0.964247	0.006298	96.34727	0.959774	0.006351
	V	118.79008	0.852153	0.011168	119.86659	0.840185	0.011174
74	E	96.75903	0.958080	0.006167	97.30082	0.953547	0.006227
	V	119.63137	0.841288	0.010865	120.69591	0.829319	0.010866
75	E	97.71107	0.932041	0.006039	98.24827	0.947452	0.006095
	V	120.46209	0.830715	0.010573	121.51466	0.818751	0.010568
76	E	98.65720	0.946126	0.005915	99.18976	0.941486	0.005966
	V	121.28251	0.820426	0.010289	122.32313	0.808471	0.010280
77	E	99.59753	0.940335	0.005791	100.12540	0.935646	0.005840
	V	122.09293	0.810412	0.010014	123.12160	0.7988472	0.009979
78	E	100.53219	0.934663	0.005672	101.05533	0.929929	0.009517
	V	122.89359	0.800665	0.009747	123.91035	0.788744	0.009728
79	E	101.46130	0.929109	0.005554	101.97966	0.924332	0.005597
	V	123.68477	0.791177	0.009488	124.68962	0.779278	0.009466
80	E	102.38497	0.923669	0.005440	102.89851	0.918833	0.005479
	V	124.46671	0.781940	0.009237	125.44596	0.770067	0.009211
81	E	103.30331	0.918342	0.005327	103.81200	0.913489	0.005364
	V	125.23966	0.772947	0.008993	126.22079	0.761103	0.008964
82	E	104.21644	0.913125	0.005217	104.72024	0.908238	0.005251
	V	126.00385	0.764190	0.008757	126.97317	0.752377	0.008726
83	E	105.12445	0.908016	0.005109	105.62334	0.903096	0.005142
	V	126.75951	0.755662	0.008528	127.71706	0.743883	0.008494
84	E	106.02746	0.903012	0.005004	106.52140	0.898063	0.005033
	V	127.50686	0.747356	0.008306	128.45267	0.735614	0.008269
85	E	106.92558	0.898111	0.004901	107.41453	0.893135	0.004928
	V	128.24613	0.739266	0.008090	129.18023	0.727563	0.008051
86	E	107.81889	0.893312	0.004799	108.30284	0.888310	0.004825
	V	128.97752	0.731386	0.007880	129.89996	0.719723	0.007840
87	E	108.70750	0.888611	0.004701	109.81864	0.883585	0.004725
	V	129.70123	0.723709	0.007677	130.61204	0.712088	0.007635
88	E	109.59151	0.884007	0.004604	110.65339	0.878960	0.004625
	V	130.41745	0.716230	0.007479	131.31669	0.704652	0.007436
89	E	110.47100	0.879498	0.004508	110.93982	0.874431	0.004529
	V	131.12640	0.708942	0.007288	132.01410	0.697409	0.007243
90	E	111.34609	0.875082	0.004416	111.80982	0.869966	0.004435
	V	131.82824	0.701841	0.007101	132.70446	0.690393	0.007036

84.97161	0.008354
110.18503	0.015869
86.00578	0.008172
111.15563	0.015400
87.03195	0.007995
112.11128	0.014948
88.05030	0.007820
113.05242	0.014510
89.06100	0.007649
113.97947	0.014086
90.06421	0.007483
114.89285	0.013677
91.06011	0.007321
115.79294	0.007095
92.04884	0.007161
116.68014	0.012898
93.03037	0.007006
117.55481	0.012528
94.00545	0.0074876
118.41731	0.012170
94.97362	0.006706
119.26798	0.011824
95.93523	0.006560
120.10717	0.011489
96.89042	0.006418
120.93519	0.011165
97.83933	0.006280
121.75236	0.010852
98.78210	0.006144
122.58598	0.010549
99.71886	0.006013
123.35534	0.010253
100.64973	0.005883
124.14174	0.009972
101.57484	0.005757
124.91843	0.009697
102.49432	0.005634
125.68569	0.009431
103.40829	0.005513
126.44379	0.009174
104.31686	0.005396
127.19295	0.008925
105.22016	0.005281
127.93343	0.008684
106.11828	0.005168
128.66547	0.008449
107.01134	0.005059
129.38928	0.008223
107.89945	0.004951
130.10508	0.008004
108.78272	0.004847
130.86124	0.004744
109.66124	0.004643
131.51353	0.004545
110.53512	0.004450
132.20657	0.004352
111.40446	0.004259
132.89243	0.004166
112.26934	0.004065
133.57128	0.003973

ECCENTRICITY		1 st DIF.	2ND DIF.	1 st DIF.	2ND DIF.	0.4 ² 1 st DIF.	2ND DIF.
91	E	112.21684	0.870757	112.67547	0.865654	113.12987	0.860529
	V	132.52316	0.694920	133.38794	0.683479	134.24331	0.672032
92	E	113.08337	0.866521	113.53687	0.861403	113.98613	0.856265
	V	133.21133	0.688175	134.06472	0.676782	134.90870	0.665389
93	E	113.94574	0.862373	114.39411	0.857240	114.83822	0.852091
	V	133.89293	0.681602	134.73497	0.670256	135.56762	0.658917
94	E	114.80405	0.858310	115.24728	0.853164	115.68623	0.848005
	V	134.56813	0.675194	135.39887	0.663897	136.22023	0.652613
95	E	115.65838	0.854330	116.09645	0.849172	116.55044	0.844005
	V	135.23708	0.668948	136.05657	0.657700	136.86670	0.646471
96	E	116.50881	0.850433	116.94171	0.845265	117.37032	0.840089
	V	135.89993	0.662859	136.70823	0.651661	137.50719	0.640486
97	E	117.35543	0.846617	117.78315	0.841438	118.20658	0.836256
	V	136.55686	0.659922	137.35401	0.645774	138.14184	0.634655
98	E	118.19831	0.842879	118.62084	0.837692	119.03908	0.832504
	V	137.20799	0.651134	137.99404	0.640036	138.77081	0.628972
99	E	119.03753	0.839218	119.45487	0.834023	119.86752	0.828830
	V	137.85348	0.645491	138.62849	0.634443	139.39423	0.623434
100	E	119.87316	0.835634	120.28530	0.830432	120.63935	0.825235
	V	138.49347	0.639989	139.25748	0.628991	140.01229	0.618036
101	E	120.70528	0.832124	121.11221	0.826916	121.51466	0.821715
	V	139.12810	0.634623	139.88115	0.623675	140.62506	0.612775
102	E	121.53397	0.828687	121.93569	0.823473	122.33213	0.818269
	V	139.75749	0.629391	140.49965	0.618493	141.23271	0.607647
103	E	122.35929	0.825321	122.75579	0.820103	123.14803	0.814897
	V	140.38177	0.624289	141.11309	0.613444	141.83536	0.602648
104	E	123.18132	0.822026	123.57259	0.816804	123.95963	0.811596
	V	141.00109	0.619314	141.49965	0.608515	142.43313	0.597776
105	E	124.00012	0.819799	124.38617	0.813574	124.76799	0.808365
	V	141.61555	0.614462	142.32532	0.603712	143.02616	0.593026
106	E	124.81576	0.815640	125.19658	0.810412	125.57319	0.805293
	V	142.22528	0.607730	142.92435	0.599029	143.61455	0.588363
107	E	125.62830	0.812548	126.00390	0.807318	126.37530	0.802108
	V	142.83040	0.605115	143.51881	0.594463	144.19843	0.583881
108	E	126.43783	0.809521	126.80819	0.804289	127.17438	0.800309
	V	143.43101	0.600615	144.10882	0.590011	144.77791	0.579480
109	E	127.24438	0.806558	127.60951	0.801324	127.97050	0.796116
	V	144.02724	0.596226	144.59449	0.585670	145.35310	0.575190
110	E	128.04804	0.803657	128.40793	0.798423	128.76371	0.793216
	V	144.61918	0.591946	145.27592	0.581437	145.92411	0.571007
111	E	128.84886	0.800819	129.20352	0.795585	129.55409	0.790378
	V	145.20695	0.587771	145.85324	0.577309	146.49104	0.566929
112	E	129.64690	0.798041	129.99632	0.792807	130.34169	0.787603
	V	145.79066	0.583701	146.62652	0.573285	147.05399	0.562954
113	E	130.44222	0.795323	130.78641	0.790089	131.12658	0.784887
	V	146.37039	0.579731	146.99588	0.569362	147.61307	0.559079
114	E	131.23488	0.792663	131.57384	0.787430	131.90881	0.782231
	V	146.94625	0.575861	147.56142	0.565536	148.16837	0.555301
115	E	132.02495	0.790061	132.35867	0.784830	132.68844	0.779632
	V	147.51833	0.572086	148.12322	0.561806	148.71959	0.551618
116	E	132.81246	0.787516	133.14096	0.782286	133.46553	0.777092
	V	148.08674	0.568406	148.68139	0.558170	149.24802	0.548028
117	E	133.59749	0.785027	133.92076	0.779798	134.24014	0.774607
	V	148.65156	0.564818	149.23602	0.554626	149.81255	0.544529
118	E	134.38008	0.782592	134.69812	0.777365	135.01232	0.772178
	V	149.21288	0.561321	149.78719	0.551171	150.35367	0.541119
119	E	135.16029	0.780211	135.47311	0.774987	135.78212	0.769803
	V	149.77079	0.557911	150.33499	0.547803	150.89146	0.537796
120	E	135.93818	0.777884	136.24577	0.772662	136.54960	0.767481
	V	150.32538	0.554587	150.87951	0.544521	151.42602	0.534557

ECCENTRICITY M		0.40		2ND DIF.	0.41		2ND DIF.	0.42		2ND DIF.
		1ST DIF.			1ST DIF.			1ST DIF.		
121	E	136.71379	0.775609	0.002275	137.01616	0.770389	0.002273	137.31482	0.765212	0.002269
122	V	150.87672	0.551347	0.003240	151.42084	0.541322	0.003199	151.95742	0.531401	0.003156
123	E	137.48717	0.773385	0.002224	137.78433	0.768168	0.002221	138.07781	0.762995	0.002217
124	V	151.42492	0.548190	0.003157	151.95904	0.538206	0.003116	152.48575	0.528326	0.003075
125	E	138.25838	0.771212	0.002173	138.55033	0.765998	0.002170	138.83864	0.760829	0.002166
126	V	151.97003	0.545114	0.003076	152.49421	0.535169	0.003037	153.01108	0.525330	0.002996
127	E	139.02747	0.769089	0.002123	139.31420	0.763877	0.002121	139.59735	0.758713	0.002116
128	V	152.51215	0.542117	0.002997	153.02642	0.532210	0.002959	153.53349	0.522412	0.002918
129	E	139.79449	0.767015	0.002074	140.07601	0.761807	0.002070	140.35400	0.756646	0.002067
130	V	153.05134	0.539197	0.002920	153.55575	0.529329	0.002881	154.05306	0.519570	0.002842
131	E	140.55947	0.764989	0.002026	140.83579	0.759784	0.002023	141.10863	0.754628	0.002018
132	V	153.58769	0.536353	0.002844	154.08227	0.525522	0.002807	154.56986	0.516802	0.002768
133	E	141.32248	0.763011	0.001978	141.59361	0.757810	0.001974	141.86128	0.752658	0.001970
134	V	154.12128	0.533583	0.002770	154.60606	0.523789	0.002733	155.08397	0.514108	0.002694
135	E	142.08357	0.761081	0.001930	142.34949	0.755983	0.001927	142.61202	0.750735	0.001923
136	V	154.65216	0.530886	0.002697	155.12719	0.521128	0.002661	155.59545	0.511484	0.002624
137	E	142.84216	0.759196	0.001885	143.10349	0.754002	0.001881	143.36088	0.748859	0.001876
138	V	155.18042	0.528260	0.002626	155.64573	0.518538	0.002590	156.10438	0.508931	0.002553
139	E	143.60012	0.757358	0.001838	143.85566	0.752167	0.001835	144.10791	0.747029	0.001830
140	V	155.70613	0.525705	0.002555	156.16175	0.516017	0.002521	156.61083	0.506446	0.002485
141	E	144.35568	0.755564	0.001794	144.60603	0.750377	0.001790	144.85315	0.745244	0.001785
142	V	156.22935	0.523218	0.002487	156.67931	0.513565	0.002452	157.11486	0.504028	0.002418
143	E	145.10950	0.753816	0.001748	145.35467	0.748632	0.001745	145.59665	0.743503	0.001741
144	V	156.75014	0.520799	0.002419	157.18649	0.511179	0.002386	157.61653	0.501677	0.002351
145	E	145.86161	0.752111	0.001705	146.10160	0.746931	0.001701	146.33846	0.741807	0.001696
146	V	157.26859	0.518446	0.002353	157.69335	0.508858	0.002321	158.11592	0.499390	0.002287
147	E	146.61206	0.750450	0.001661	146.84687	0.745274	0.001657	147.07861	0.740154	0.001653
148	V	157.78475	0.516158	0.002288	158.20195	0.506602	0.002256	158.61309	0.497167	0.002223
149	E	147.36089	0.748831	0.001619	147.59053	0.743659	0.001615	147.81716	0.738543	0.001611
150	V	158.29869	0.513934	0.002224	158.70636	0.504410	0.002192	159.10810	0.495006	0.002161
151	E	148.10815	0.747255	0.001576	148.33262	0.742087	0.001572	148.55413	0.736976	0.001567
152	V	158.81046	0.511773	0.002161	159.20864	0.502279	0.002131	159.60100	0.492907	0.002099
153	E	148.85387	0.745721	0.001534	149.07317	0.740556	0.001531	149.28958	0.735450	0.001526
154	V	159.32013	0.509674	0.002099	159.70885	0.500209	0.002070	160.09187	0.490867	0.002040
155	E	149.59810	0.744228	0.001493	149.81224	0.739067	0.001489	150.02355	0.733965	0.001485
156	V	159.82777	0.507635	0.002039	160.20705	0.498200	0.002009	160.58076	0.488888	0.001979
157	E	150.34087	0.742776	0.001452	150.54986	0.737619	0.001448	150.75607	0.732521	0.001444
158	V	160.33342	0.505656	0.001979	160.70330	0.496249	0.001951	161.06772	0.486966	0.001922
159	E	151.08224	0.741364	0.001412	151.28607	0.736211	0.001408	151.48719	0.731118	0.001403
160	V	160.83716	0.503736	0.001920	161.19765	0.494356	0.001893	161.55282	0.485102	0.001864
161	E	151.82223	0.739992	0.001372	152.02091	0.734843	0.001368	152.21694	0.729754	0.001364
162	V	161.33903	0.501874	0.001862	161.69017	0.492521	0.001835	162.03612	0.483294	0.001808
163	E	152.56089	0.738660	0.001332	152.75443	0.733514	0.001329	152.94537	0.728430	0.001324
164	V	161.83910	0.500068	0.001806	162.18091	0.490741	0.001780	162.51766	0.481541	0.001753
165	E	153.29826	0.737367	0.001293	153.48665	0.732225	0.001289	153.67251	0.727144	0.001286
166	V	162.33742	0.498319	0.001749	162.66993	0.485018	0.001723	162.99750	0.479843	0.001698
167	E	154.03437	0.736113	0.001254	154.21762	0.730974	0.001251	154.39841	0.725898	0.001246
168	V	162.83404	0.496625	0.001694	163.15728	0.487348	0.001670	163.47570	0.478199	0.001644
169	E	154.76926	0.734896	0.001217	154.94739	0.729761	0.001213	155.12310	0.724689	0.001209
170	V	163.32903	0.494985	0.001640	163.64301	0.485733	0.001615	163.95231	0.476608	0.001591
171	E	155.50298	0.737318	0.001178	155.67597	0.728586	0.001175	155.84662	0.723518	0.001171
172	V	163.82243	0.493399	0.001586	164.12718	0.484170	0.001563	164.42738	0.475070	0.001538
173	E	156.23556	0.732577	0.001141	156.40342	0.727449	0.001137	156.56900	0.722385	0.001133
174	V	164.31429	0.491866	0.001533	164.60984	0.482660	0.001510	164.90096	0.473582	0.001488
175	E	156.96703	0.731474	0.001103	157.12977	0.726349	0.001100	157.29029	0.721289	0.001096
176	V	164.80468	0.490385	0.001481	165.09104	0.481201	0.001459	165.37311	0.472146	0.001436
177	E	157.69744	0.730407	0.001067	157.85506	0.725286	0.001063	158.01052	0.720229	0.001060
178	V	165.29363	0.488956	0.001429	165.57084	0.479793	0.001406	165.84387	0.470760	0.001386
179	E	158.42882	0.729377	0.001030	158.57932	0.724259	0.001027	158.72973	0.719206	0.001023
180	V	165.78121	0.487578	0.001378	166.04927	0.478435	0.001358	166.31329	0.469423	0.001337

ECCENTRICITY M		0.43		2ND DIF.		0.44		2ND DIF.		0.45		2ND DIF.	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
1	E	1.75418		1.78549		1.784127		1.81793		1.816438		1.81793	
2	V	2.77814		2.86279		2.858426		2.95135		2.946500		2.95135	
3	E	5.52535		5.72121		5.72121		5.84783		5.84783		5.84783	
4	V	8.31876		8.57097		8.57097		8.83471		8.83471		8.83471	
5	E	11.07357		11.40783		11.40783		11.75723		11.75723		11.75723	
6	V	13.81308		14.22773		14.22773		14.66091		14.66091		14.66091	
7	E	16.53376		17.02674		17.02674		17.54144		17.54144		17.54144	
8	V	19.23223		19.80118		19.80118		20.39474		20.39474		20.39474	
9	E	21.90535		22.54759		22.54759		23.21706		23.21706		23.21706	
10	V	24.55018		25.26279		25.26279		26.00492		26.00492		26.00492	
11	E	27.16403		27.94387		27.94387		28.75519		28.75519		28.75519	
12	V	29.74446		30.58821		30.58821		31.46509		31.46509		31.46509	
13	E	32.28929		33.19351		33.19351		34.13218		34.13218		34.13218	
14	V	34.79661		35.75777		35.75777		36.75437		36.75437		36.75437	
15	E	37.26477		38.27928		38.27928		39.32992		39.32992		39.32992	
16	V	39.69236		40.75662		40.75662		41.85742		41.85742		41.85742	
17	E	42.07825		43.18867		43.18867		44.33575		44.33575		44.33575	
18	V	44.42152		45.57455		45.57455		46.76411		46.76411		46.76411	
19	E	46.72148		47.91364		47.91364		49.14197		49.14197		49.14197	
20	V	48.97765		50.20555		50.20555		51.46906		51.46906		51.46906	
21	E	51.18976		52.45010		52.45010		53.74532		53.74532		53.74532	
22	V	53.35769		54.64730		54.64730		56.97935		56.97935		56.97935	
23	E	55.48151		56.79735		56.79735		59.34682		59.34682		59.34682	
24	V	57.56140		58.90058		58.90058		60.27158		60.27158		60.27158	
25	E	59.59771		60.95745		60.95745		62.34780		62.34780		62.34780	
26	V	61.62176		62.96856		62.96856		64.37844		64.37844		64.37844	
27	E	63.64142		64.93460		64.93460		66.36475		66.36475		66.36475	
28	V	65.45000		66.85634		66.85634		68.28923		68.28923		68.28923	
29	E	67.31731		68.73463		68.73463		70.17707		70.17707		70.17707	
30	V	69.14409		70.57036		70.57036		72.32002		72.32002		72.32002	
	E	70.93317		72.36448		72.36448		73.82002		73.82002		73.82002	

ECCENTRICITY M		0.43		2ND DIF.	0.44		2ND DIF.	0.45		2ND DIF.
		1ST	DIF.		1ST	DIF.		1ST	DIF.	
31	E	49.82461	1.391533	0.015379	50.43439	1.397373	0.016095	51.05193	1.402786	0.016818
32	V	72.67939	1.748222	0.038857	74.111798	1.753495	0.040627	75.57735	1.757330	0.042391
33	E	51.20095	1.376336	0.015197	52.81385	1.381496	0.015877	54.38116	1.386224	0.016562
34	V	74.38964	1.710246	0.037976	75.83185	1.713874	0.039621	77.29343	1.716080	0.041250
35	E	52.56229	1.361336	0.015000	53.18174	1.365851	0.015645	53.80809	1.369933	0.016291
36	V	76.06281	1.673173	0.037073	77.50713	1.675278	0.038596	78.96941	1.675981	0.040099
37	E	53.90883	1.346548	0.014788	54.53219	1.350452	0.015399	55.16201	1.353923	0.016010
38	V	77.69983	1.637019	0.036156	79.14485	1.637715	0.037563	80.60645	1.637037	0.038944
39	E	55.24082	1.331982	0.014566	55.86750	1.335308	0.015144	56.50022	1.338204	0.015719
40	V	79.30162	1.601794	0.035225	80.74603	1.601190	0.036525	82.20570	1.599244	0.037793
41	E	56.55846	1.317648	0.014334	57.18793	1.320427	0.014881	57.82300	1.322781	0.015423
42	V	80.86913	1.567502	0.034292	82.31174	1.565701	0.035489	83.76829	1.562593	0.036651
43	E	57.86202	1.303551	0.014097	58.49374	1.305816	0.014611	59.13065	1.307659	0.015122
44	V	82.40327	1.534143	0.033359	83.84298	1.531241	0.034460	85.29536	1.527070	0.035523
45	E	59.15172	1.289700	0.013851	59.78522	1.291478	0.014338	60.42350	1.292841	0.014818
46	V	83.90498	1.501712	0.032431	85.34078	1.497799	0.033442	86.78802	1.492658	0.034412
47	E	60.42781	1.276097	0.013603	61.06264	1.277747	0.014061	61.70183	1.278330	0.014511
48	V	85.37518	1.470201	0.031511	86.80614	1.465362	0.032437	88.24735	1.459337	0.033321
49	E	61.69056	1.262766	0.013351	62.32827	1.263635	0.013782	62.96595	1.264125	0.014205
50	V	86.81478	1.435959	0.030602	88.24005	1.433912	0.031450	89.67444	1.427085	0.032252
51	E	62.94021	1.249650	0.013096	63.57640	1.250132	0.013503	64.21618	1.250226	0.013899
52	V	88.22468	1.409893	0.029706	89.64348	1.403432	0.030480	91.07031	1.395876	0.031209
53	E	64.17702	1.236809	0.012841	64.81331	1.236910	0.013222	65.45281	1.236632	0.013594
54	V	89.60574	1.381066	0.028827	91.01738	1.373900	0.029532	92.43600	1.365685	0.030191
55	E	65.40124	1.224223	0.012586	66.03728	1.223965	0.012945	66.67615	1.223339	0.013293
56	V	90.95884	1.353101	0.027965	92.36268	1.341298	0.028605	93.77248	1.336483	0.029202
57	E	66.61313	1.211892	0.012331	67.24858	1.211592	0.012667	67.88649	1.210346	0.012993
58	V	92.28482	1.325981	0.027120	93.68027	1.317592	0.027703	95.08072	1.308243	0.028240
59	E	67.81295	1.199815	0.012077	68.44748	1.198905	0.012393	69.08414	1.197648	0.012698
60	V	93.58451	1.299684	0.026297	94.97104	1.290769	0.026823	96.36166	1.280936	0.027307
61	E	69.00094	1.187990	0.011825	69.63426	1.186783	0.012122	70.26938	1.185241	0.012407
62	V	94.85870	1.274192	0.025492	96.23584	1.264799	0.025970	97.61619	1.254533	0.026403
63	E	70.17735	1.176415	0.011575	70.80919	1.174329	0.011854	71.44250	1.173120	0.012121
64	V	96.10818	1.249482	0.024710	97.47550	1.239660	0.025139	98.84520	1.229006	0.025527
65	E	71.34244	1.165086	0.011329	71.97253	1.163340	0.011589	72.60378	1.161282	0.011838
66	V	97.33371	1.225533	0.023949	98.69082	1.215324	0.024336	100.04953	1.204326	0.024680
67	E	72.49644	1.154001	0.011085	73.12454	1.152011	0.011329	73.75350	1.149720	0.011562
68	V	98.53604	1.202324	0.023209	99.88259	1.191769	0.023555	101.22999	1.180464	0.023862
69	E	73.63960	1.143157	0.010844	74.26548	1.140938	0.011073	74.89193	1.138429	0.011291
70	V	99.71587	1.179833	0.022491	101.05156	1.168968	0.022801	102.38738	1.157392	0.023072
71	E	74.77215	1.132549	0.010608	75.39560	1.130116	0.010822	76.01934	1.127404	0.011025
72	V	100.87391	1.158038	0.021795	102.19845	1.146897	0.022071	103.52247	1.135084	0.022308
73	E	75.89432	1.122174	0.010375	76.51514	1.119541	0.010575	77.13597	1.116639	0.010765
74	V	102.01083	1.136918	0.021120	103.32399	1.125533	0.021364	104.63598	1.113511	0.021573
75	E	77.00635	1.112028	0.010146	77.62435	1.109207	0.010334	78.24210	1.106129	0.010510
76	V	103.12728	1.116452	0.020466	104.42884	1.104850	0.020683	105.72862	1.092647	0.020864
77	E	78.10846	1.102107	0.009921	78.72346	1.099110	0.010097	79.33797	1.095867	0.010262
78	V	104.22390	1.096619	0.019833	105.51367	1.084827	0.020023	106.80109	1.072468	0.020179
79	E	79.20086	1.092406	0.009701	79.81270	1.089245	0.009865	80.42382	1.085849	0.010018
80	V	105.30130	1.077398	0.019221	106.57911	1.065441	0.019386	107.85404	1.052949	0.019519
81	E	80.28378	1.082921	0.009485	80.89231	1.079607	0.009638	81.49989	1.076068	0.009781
82	V	106.36006	1.058769	0.018629	107.62578	1.046669	0.018772	108.88811	1.034064	0.018885
83	E	81.35743	1.073647	0.009274	81.96250	1.070190	0.009417	82.56641	1.066518	0.009550
84	V	107.40078	1.040714	0.018055	108.65426	1.028489	0.018180	109.90390	1.015791	0.018273
85	E	82.42201	1.064581	0.009066	83.02349	1.060990	0.009200	83.62360	1.057194	0.009324
86	V	108.42399	1.023211	0.017503	109.66515	1.010882	0.017607	110.90200	0.998108	0.017683
87	E	83.47773	1.055717	0.008864	84.07549	1.052002	0.008988	84.67169	1.048090	0.009104
88	V	109.43023	1.006243	0.016968	110.65897	0.9993827	0.017055	111.88300	0.980992	0.017116
89	E	84.52478	1.047052	0.008665	85.11871	1.043320	0.008782	85.71089	1.039201	0.008889
90	V	110.42002	0.989792	0.016451	111.63628	0.977303	0.016524	112.84742	0.964423	0.016569

ECCENTRICITY M		0.43		2ND DIF.	0.44		2ND DIF.	0.45		2ND DIF.
		1ST DIF.	2ND DIF.		1ST DIF.	2ND DIF.		1ST DIF.	2ND DIF.	
61	E	85.56336	1.038580	0.008472	86.15335	1.034640	0.008580	86.74141	1.030522	0.008679
	V	111.39387	0.973840	0.015952	112.59757	0.961294	0.016009	113.79380	0.948380	0.016043
62	E	86.59366	1.030298	0.008282	87.17961	1.026257	0.008383	87.76346	1.022046	0.008476
	V	112.35224	0.958371	0.015469	113.54335	0.945779	0.015515	114.72864	0.932844	0.015536
63	E	87.61586	1.022201	0.008097	88.19767	1.018066	0.008191	88.77123	1.013769	0.008277
	V	113.29560	0.943366	0.015005	114.47409	0.930741	0.015038	115.64644	0.917796	0.015048
64	E	88.63014	1.014285	0.007916	89.20773	1.010062	0.008004	89.78292	1.005686	0.008083
	V	114.22441	0.928812	0.014554	115.39025	0.916164	0.014577	116.54966	0.903218	0.014578
65	E	89.63669	1.006546	0.007739	90.20997	1.002241	0.007821	90.78071	0.997792	0.007894
	V	115.13911	0.914692	0.014120	116.29229	0.902031	0.014133	117.43875	0.889093	0.014125
66	E	90.63567	0.998979	0.007567	91.20457	0.994598	0.007643	91.77079	0.990081	0.007711
	V	116.04010	0.900991	0.013701	117.18061	0.888326	0.013705	118.31415	0.875404	0.013689
67	E	91.62725	0.991581	0.007398	92.19170	0.987129	0.007469	92.75334	0.982549	0.007532
	V	116.92779	0.887694	0.013297	118.05565	0.875030	0.013291	119.17629	0.862135	0.013269
68	E	92.61160	0.984347	0.007234	93.17153	0.979830	0.007299	93.72853	0.975191	0.007358
	V	117.80258	0.874789	0.012905	118.91779	0.862141	0.012894	120.02556	0.849272	0.012863
69	E	93.58887	0.977273	0.007074	94.14423	0.972695	0.007135	94.69553	0.968003	0.007188
	V	118.66484	0.862262	0.012527	119.76742	0.849632	0.012509	120.86236	0.836798	0.012474
70	E	94.55923	0.970356	0.006917	95.10995	0.965722	0.006973	95.65751	0.960980	0.007023
	V	119.51494	0.850099	0.012163	120.60491	0.837494	0.012138	121.68706	0.824700	0.012098
71	E	95.52282	0.963592	0.006764	96.06885	0.958906	0.006816	96.61163	0.954118	0.006862
	V	120.35323	0.838289	0.011810	121.43063	0.825713	0.011781	122.50002	0.812964	0.011736
72	E	96.47980	0.956978	0.006614	97.02111	0.952243	0.006663	97.55904	0.947413	0.006705
	V	121.18005	0.826820	0.011469	122.24491	0.814278	0.011435	123.30160	0.801578	0.011386
73	E	97.43030	0.950509	0.006469	97.96683	0.945729	0.006514	98.49990	0.940861	0.006552
	V	121.99573	0.815679	0.011141	123.04808	0.803176	0.011102	124.09213	0.790329	0.011049
74	E	98.37449	0.944182	0.006327	98.590619	0.939366	0.006368	99.14336	0.934457	0.006404
	V	122.80059	0.804856	0.010823	123.84048	0.792396	0.010780	124.87194	0.779805	0.010724
75	E	99.31248	0.937993	0.006189	99.83932	0.933135	0.006226	100.36256	0.928199	0.006258
	V	123.59493	0.794340	0.010516	124.62240	0.781926	0.010470	125.64133	0.769394	0.010411
76	E	100.24442	0.931940	0.006053	100.76637	0.927047	0.006089	101.28464	0.922082	0.006117
	V	124.37905	0.784121	0.010219	125.39416	0.771757	0.010169	126.40062	0.925286	0.010108
77	E	101.17044	0.926020	0.005920	101.68746	0.921094	0.005953	102.20074	0.916102	0.005980
	V	125.15324	0.774190	0.009931	126.15604	0.761877	0.009880	127.15009	0.749470	0.009816
78	E	102.09067	0.920228	0.005792	102.60274	0.915273	0.005821	103.11100	0.910256	0.005846
	V	125.91777	0.764536	0.009654	126.90832	0.752278	0.009599	127.89002	0.739936	0.009534
79	E	103.00523	0.914562	0.005666	103.51232	0.909591	0.005692	104.01554	0.904542	0.005714
	V	126.67292	0.755150	0.009386	127.65126	0.742949	0.009329	128.62070	0.730674	0.009262
80	E	103.91425	0.909019	0.005543	104.41633	0.904013	0.005568	104.91449	0.898954	0.005588
	V	127.41895	0.746024	0.009126	128.38515	0.733882	0.009067	129.34237	0.890899	0.008999
81	E	104.81785	0.903596	0.005423	105.31490	0.898568	0.005445	105.80799	0.893491	0.005463
	V	128.15610	0.737150	0.008874	129.11021	0.725067	0.008815	130.05530	0.712930	0.008745
82	E	105.71614	0.898291	0.005305	106.20814	0.893242	0.005326	106.69613	0.888149	0.005342
	V	128.88461	0.728518	0.008632	129.82671	0.716497	0.008570	130.75973	0.704431	0.008499
83	E	106.60924	0.893100	0.005191	107.09617	0.888032	0.005210	107.57906	0.882925	0.005224
	V	129.60474	0.720123	0.008395	130.53487	0.708164	0.008333	131.45590	0.696168	0.008263
84	E	107.49726	0.888020	0.005080	107.97911	0.882936	0.005096	108.45687	0.877816	0.005109
	V	130.31669	0.711954	0.008169	131.23493	0.700059	0.008105	132.14404	0.688135	0.008033
85	E	108.38031	0.883050	0.004970	108.85706	0.877951	0.004985	109.32970	0.872820	0.004996
	V	131.02070	0.704007	0.007947	131.92711	0.692176	0.007883	132.82436	0.680324	0.007811
86	E	109.25849	0.878186	0.004864	109.73013	0.873074	0.004877	110.19763	0.867953	0.004887
	V	131.71697	0.696273	0.007734	132.61162	0.684508	0.007668	133.49709	0.672728	0.007596
87	E	110.13192	0.873427	0.004759	110.59844	0.868303	0.004771	111.06070	0.863154	0.004779
	V	132.40572	0.688747	0.007526	133.28866	0.677046	0.007462	134.16243	0.665339	0.007389
88	E	111.00069	0.868769	0.004658	111.46207	0.863634	0.004669	111.91926	0.858479	0.004675
	V	133.08714	0.681421	0.007326	133.955845	0.669786	0.007260	134.82058	0.658151	0.007188
89	E	111.86490	0.864211	0.004558	112.32114	0.859067	0.004567	112.77317	0.853906	0.004573
	V	133.76143	0.674289	0.007132	134.62117	0.666271	0.007065	135.47174	0.651158	0.006993
90	E	112.72465	0.859750	0.004461	113.17574	0.854598	0.004469	113.62260	0.849432	0.004474
	V	134.42877	0.667346	0.006943	135.27702	0.655844	0.006877	136.11609	0.644353	0.006805

ECCENTRICITY	M	1st DIF.				2ND DIF.				1st DIF.				2ND DIF.				1st DIF.				2ND DIF.			
		1st DIF.				2ND DIF.				1st DIF.				2ND DIF.				1st DIF.				2ND DIF.			
91	E	113.58003	0.855385	0.004365	114.02596	0.850226	0.004372	114.46766	0.845056	0.850226	0.004372	114.46766	0.845056	0.004372	114.46766	0.845056	0.004372	0.850226	0.004372	114.46766	0.845056	0.004372	114.46766	0.845056	0.004372
92	V	135.08936	0.660586	0.006760	135.92616	0.649150	0.006694	136.75382	0.637731	0.649150	0.006694	136.75382	0.637731	0.006694	136.75382	0.637731	0.006694	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
93	V	115.74336	0.654003	0.006583	136.56880	0.642633	0.006517	137.38511	0.631285	0.642633	0.006517	137.38511	0.631285	0.006517	137.38511	0.631285	0.006517	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
94	V	135.27808	0.846930	0.004182	115.71367	0.841761	0.004186	116.14502	0.836586	0.841761	0.004186	116.14502	0.836586	0.004186	116.14502	0.836586	0.004186	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
95	E	116.12091	0.842838	0.004092	116.55134	0.837664	0.004097	116.97750	0.832489	0.837664	0.004097	116.97750	0.832489	0.004097	116.97750	0.832489	0.004097	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
96	E	137.03230	0.661348	0.006244	137.83520	0.630110	0.006178	138.62502	0.618903	0.630110	0.006178	138.62502	0.618903	0.006178	138.62502	0.618903	0.006178	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
97	E	116.95975	0.838832	0.004006	117.38499	0.833656	0.004008	117.80598	0.828479	0.833656	0.004008	117.80598	0.828479	0.004008	117.80598	0.828479	0.004008	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
98	V	137.66757	0.835267	0.006081	138.45929	0.825226	0.006017	139.24198	0.812957	0.825226	0.006017	139.24198	0.812957	0.006017	139.24198	0.812957	0.006017	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
99	V	117.79466	0.834911	0.003921	118.21472	0.829733	0.003923	118.63054	0.824557	0.829733	0.003923	118.63054	0.824557	0.003923	118.63054	0.824557	0.003923	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
100	E	138.29691	0.629342	0.005925	139.07752	0.618233	0.005860	139.84914	0.607166	0.618233	0.005860	139.84914	0.607166	0.005860	139.84914	0.607166	0.005860	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
101	E	118.62573	0.831074	0.003837	119.04002	0.825894	0.003839	119.45126	0.820719	0.825894	0.003839	119.45126	0.820719	0.003839	119.45126	0.820719	0.003839	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
102	V	138.92048	0.823570	0.005772	139.69005	0.812526	0.005707	140.45067	0.801527	0.812526	0.005707	140.45067	0.801527	0.005707	140.45067	0.801527	0.005707	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
103	V	119.45305	0.827318	0.003756	119.86276	0.822138	0.003756	120.26823	0.816964	0.822138	0.003756	120.26823	0.816964	0.003756	120.26823	0.816964	0.003756	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
104	E	139.53843	0.617947	0.005623	140.29701	0.606967	0.005559	141.04671	0.596036	0.606967	0.005559	141.04671	0.596036	0.005559	141.04671	0.596036	0.005559	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
105	E	120.27669	0.823642	0.003676	120.68122	0.818462	0.003676	121.08152	0.813291	0.818462	0.003676	121.08152	0.813291	0.003676	121.08152	0.813291	0.003676	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
106	V	140.15090	0.612468	0.005479	140.89857	0.601551	0.005416	141.63739	0.590687	0.612468	0.005416	141.63739	0.590687	0.005416	141.63739	0.590687	0.005416	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
107	E	121.09674	0.820045	0.003597	121.49608	0.814864	0.003598	121.89121	0.809696	0.820045	0.003598	121.89121	0.809696	0.003598	121.89121	0.809696	0.003598	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
108	V	140.75803	0.607129	0.005339	141.49484	0.596275	0.005276	142.22827	0.585478	0.607129	0.005276	142.22827	0.585478	0.005276	142.22827	0.585478	0.005276	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
109	E	121.91326	0.816524	0.003521	122.30743	0.811344	0.003520	122.69739	0.806179	0.816524	0.003520	122.69739	0.806179	0.003520	122.69739	0.806179	0.003520	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
110	V	141.35995	0.601927	0.005202	142.08598	0.591135	0.005140	142.89327	0.580403	0.601927	0.005140	142.89327	0.580403	0.005140	142.89327	0.580403	0.005140	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
111	E	122.72634	0.813077	0.003447	123.11533	0.807900	0.003444	123.50013	0.802738	0.813077	0.003444	123.50013	0.802738	0.003444	123.50013	0.802738	0.003444	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
112	V	143.13582	0.596856	0.005071	142.67210	0.586126	0.005009	143.37873	0.575459	0.596856	0.005009	143.37873	0.575459	0.005009	143.37873	0.575459	0.005009	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
113	E	123.53604	0.809705	0.003372	123.91986	0.804529	0.003371	124.29950	0.799372	0.809705	0.003371	124.29950	0.799372	0.003371	124.29950	0.799372	0.003371	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
114	V	142.54873	0.591915	0.004941	143.25335	0.581245	0.004881	143.94937	0.570642	0.591915	0.004881	143.94937	0.570642	0.004881	143.94937	0.570642	0.004881	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
115	E	124.34245	0.806404	0.003301	124.72109	0.801231	0.003298	125.09558	0.796078	0.806404	0.003298	125.09558	0.796078	0.003298	125.09558	0.796078	0.003298	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
116	V	143.13582	0.596856	0.005071	142.67210	0.586126	0.005009	143.37873	0.575459	0.596856	0.005009	143.37873	0.575459	0.005009	143.37873	0.575459	0.005009	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
117	E	125.14562	0.803174	0.003230	125.51909	0.798004	0.003227	125.88844	0.792856	0.803174	0.003227	125.88844	0.792856	0.003227	125.88844	0.792856	0.003227	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
118	V	143.71823	0.582406	0.004693	144.40169	0.571855	0.004635	145.07670	0.561377	0.582406	0.004635	145.07670	0.561377	0.004635	145.07670	0.561377	0.004635	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
119	E	125.94563	0.800013	0.003161	126.31394	0.794847	0.003157	126.63614	0.789704	0.800013	0.003157	126.63614	0.789704	0.003157	126.63614	0.789704	0.003157	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
120	V	144.29606	0.577831	0.004575	144.96903	0.567339	0.004516	145.63362	0.556922	0.577831	0.004516	145.63362	0.556922	0.004516	145.63362	0.556922	0.004516	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
121	E	126.74255	0.795921	0.003092	127.10569	0.791757	0.003090	127.46476	0.786620	0.795921	0.003090	127.46476	0.786620	0.003090	127.46476	0.786620	0.003090	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
122	V	144.86943	0.573371	0.004460	145.53137	0.562937	0.004402	146.18620	0.552580	0.573371	0.004402	146.18620	0.552580	0.004402	146.18620	0.552580	0.004402	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
123	E	127.53645	0.793894	0.003027	127.89443	0.788735	0.003022	128.24836	0.783603	0.793894	0.003027	128.24836	0.783603	0.003027	128.24836	0.783603	0.003027	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
124	V	145.43846	0.569025	0.004346	146.09061	0.558647	0.004290	146.73455	0.548350	0.569025	0.004290	146.73455	0.548350	0.004290	146.73455	0.548350	0.004290	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.004273
125	E	128.32738	0.790933	0.002961	128.68021	0.785778	0.002957	129.02901	0.780652	0.790933	0.002957	129.02901	0.780652	0.002957	129.02901	0.780652	0.002957	0.840775	0.004273	114.43115	0.851112	0.004273	114.43115	0.851112	0.00

ECCENTRICITY M		0.43		0.44		0.45	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
121	E	137.60980	0.760079	137.90117	0.754989	138.18897	0.749944
122	V	152.48665	0.521582	153.00869	0.511867	153.52372	0.502250
123	V	138.36767	0.757867	138.65395	0.752783	138.93672	0.747745
124	V	153.00520	0.518551	153.51757	0.508880	154.02303	0.499313
125	V	139.12337	0.755706	139.40458	0.750628	139.68231	0.745597
126	V	153.52079	0.515598	154.02354	0.505971	154.51948	0.496448
127	E	139.87697	0.753595	140.15310	0.748524	140.42581	0.743500
128	V	154.03352	0.512722	154.52668	0.503138	155.01314	0.493659
129	V	140.62850	0.751533	140.89957	0.746469	141.16727	0.741452
130	V	154.54344	0.509920	155.02706	0.500379	155.50408	0.490943
131	V	141.37802	0.769521	141.64404	0.744642	141.90672	0.739452
132	V	155.05063	0.507193	155.52475	0.497692	155.99238	0.488299
133	V	142.12558	0.754537	142.38654	0.742504	142.64422	0.737501
134	V	155.55517	0.504537	156.01982	0.495077	156.47811	0.485725
135	E	142.87122	0.765639	143.12713	0.740593	143.37982	0.735597
136	V	156.05712	0.501952	156.51236	0.492532	156.96133	0.483220
137	V	143.61498	0.743768	143.86586	0.738128	144.11356	0.733739
138	V	156.55655	0.499437	157.00241	0.490055	157.44211	0.480783
139	V	144.35693	0.761943	144.60277	0.736909	144.84548	0.731927
140	V	157.05354	0.496989	157.49006	0.487644	157.92052	0.478411
141	E	145.09709	0.740163	145.33790	0.735135	145.57564	0.730160
142	V	157.54815	0.494607	157.97536	0.485300	158.39663	0.476104
143	V	145.83552	0.738428	146.07131	0.733406	146.30408	0.728438
144	V	158.04044	0.492291	158.45837	0.483020	158.87049	0.473861
145	E	146.57225	0.736737	146.80303	0.731721	147.03084	0.726760
146	V	158.53048	0.490039	158.93918	0.480803	159.34217	0.471680
147	V	147.30734	0.735089	147.55311	0.730079	147.75597	0.725125
148	V	159.01833	0.487849	159.41782	0.478647	159.81173	0.469560
149	V	148.04083	0.733484	148.26159	0.728481	148.47950	0.723532
150	V	159.50405	0.485721	159.89438	0.476553	160.27923	0.467500
151	E	148.72775	0.731921	148.98851	0.726924	149.20148	0.721982
152	V	159.98770	0.483654	160.36890	0.474519	160.74473	0.465499
153	E	149.50315	0.730401	149.71392	0.725409	149.92195	0.720473
154	V	160.46935	0.481646	160.84144	0.472543	161.20828	0.463555
155	V	150.23207	0.728921	150.43786	0.723935	150.64096	0.719006
156	V	160.94905	0.479697	161.31206	0.470624	161.66995	0.461668
157	V	150.95955	0.727482	151.16036	0.722502	151.35854	0.717579
158	V	161.42685	0.477805	161.78082	0.468763	162.12979	0.459838
159	V	151.68564	0.726084	151.88147	0.721109	152.07473	0.716192
160	V	161.90282	0.475969	162.24778	0.466957	162.58785	0.458062
161	E	152.41036	0.724725	152.60122	0.719755	152.78957	0.714844
162	V	162.37701	0.474190	162.71299	0.465206	163.04419	0.456340
163	V	153.33377	0.723405	153.31967	0.718441	153.50311	0.713536
164	V	162.84947	0.472464	163.17650	0.463509	163.49886	0.454671
165	V	153.85589	0.722125	154.03683	0.717166	154.21538	0.712267
166	V	163.32027	0.470793	163.63836	0.461865	163.95192	0.453055
167	V	154.57677	0.720883	154.75276	0.715929	154.92641	0.711035
168	V	163.78944	0.469175	164.09863	0.460273	164.40340	0.451489
169	E	155.29645	0.719679	155.46749	0.714730	155.63625	0.709842
170	V	164.25705	0.467609	164.55737	0.458733	164.85338	0.449975
171	V	156.01497	0.718513	156.18106	0.713569	156.34494	0.708686
172	V	164.72315	0.466095	165.01461	0.457243	165.30189	0.448511
173	V	156.73235	0.717384	156.89350	0.712445	157.05251	0.707567
174	V	165.18778	0.464631	165.47041	0.455803	165.74899	0.447095
175	V	157.44864	0.716292	157.60486	0.711357	157.75899	0.706484
176	V	165.65100	0.463218	165.92483	0.454413	166.19472	0.445729
177	V	158.16388	0.715236	158.31517	0.710306	158.46443	0.705439
178	V	166.11285	0.461854	166.37790	0.453072	166.63912	0.444410
179	E	158.87810	0.714217	159.02446	0.709292	159.16886	0.704429
180	V	166.57339	0.460538	166.82968	0.451178	167.08226	0.443138

ECCENTRICITY		$1\sigma^3$ DIF.	2ND DIF.	$1\sigma^{4.5}$ DIF.	2ND DIF.	$1\sigma^5$ DIF.	2ND DIF.
151	E	159.59133	0.713234	159.73277	0.708313	159.87231	0.703454
152	V	167.03266	0.459271	167.28021	0.450532	167.52418	0.441913
153	E	160.30362	0.712286	160.44014	0.707369	160.57483	0.702515
154	V	167.49071	0.458052	167.72954	0.449332	167.96491	0.440735
155	E	161.01499	0.711374	161.14660	0.706461	161.27644	0.701612
156	V	167.94759	0.456879	168.11772	0.444179	168.40451	0.439601
157	E	161.72548	0.710496	161.85219	0.705588	161.97718	0.700742
158	V	168.40334	0.455753	168.62479	0.447072	168.84303	0.438513
159	E	162.43514	0.709654	162.55694	0.704749	162.67709	0.699908
160	V	168.85802	0.454673	169.07080	0.446010	169.28049	0.437469
161	E	163.14399	0.708846	163.26088	0.703945	163.37620	0.699107
162	V	169.31165	0.453638	169.51579	0.444992	169.71896	0.436469
163	E	163.85206	0.708072	163.96406	0.703174	164.07454	0.698341
164	V	169.76430	0.452648	169.95981	0.444019	170.15247	0.435512
165	E	164.55939	0.707332	164.66650	0.702438	164.77215	0.697608
166	V	170.21600	0.451702	170.40290	0.443089	170.58707	0.695999
167	E	165.26602	0.706626	165.36823	0.701735	165.46905	0.694599
168	V	170.66681	0.450801	170.84515	0.442203	171.02080	0.693128
169	E	165.97197	0.705954	166.06930	0.701066	166.16530	0.69243
170	V	171.11675	0.449943	171.28646	0.441360	171.45370	0.690829
171	E	166.67728	0.705315	166.76973	0.700430	166.86091	0.695610
172	V	171.56588	0.449129	171.72702	0.440559	171.88581	0.693907
173	E	167.38199	0.704708	167.46955	0.699826	167.55592	0.695010
174	V	172.01423	0.448358	172.16682	0.439801	172.31718	0.690745
175	E	168.08613	0.704135	168.16881	0.699256	168.25036	0.694442
176	V	172.46186	0.447629	172.60591	0.439084	172.74784	0.693063
177	E	168.78972	0.703595	168.86753	0.698718	168.94427	0.693907
178	V	172.90881	0.446942	173.04432	0.438409	173.17784	0.693000
179	E	169.49281	0.703088	169.56574	0.698213	169.63767	0.693404
180	V	173.35510	0.446297	173.48209	0.437775	173.60722	0.692937
181	E	170.19542	0.702612	170.26348	0.697740	170.33060	0.692934
182	V	173.80080	0.445694	173.91927	0.437182	174.03601	0.692879
183	E	170.89759	0.702169	170.96078	0.697259	171.02310	0.692495
184	V	174.24593	0.445133	174.35590	0.436630	174.46426	0.6928252
185	E	171.59935	0.701759	171.65767	0.696891	171.71519	0.692089
186	V	174.69054	0.444612	174.79202	0.436119	174.89201	0.691714
187	E	172.30073	0.701380	172.35418	0.696514	172.40690	0.691714
188	V	175.13467	0.444132	175.22767	0.435647	175.31930	0.691714
189	E	173.00176	0.701034	173.05035	0.696169	173.09827	0.691371
190	V	175.57837	0.443693	175.66289	0.435216	175.74616	0.690424
191	E	173.70248	0.700719	173.74621	0.695856	173.78933	0.691059
192	V	176.02166	0.443295	176.09771	0.434824	176.17264	0.690385
193	E	174.40292	0.700436	174.44178	0.695574	174.48011	0.690779
194	V	176.46460	0.442937	176.53218	0.434472	176.59877	0.690346
195	E	175.10310	0.700184	175.13711	0.695324	175.17064	0.690249
196	V	176.90722	0.442619	176.96634	0.434160	177.02459	0.690307
197	E	175.80307	0.699964	175.83221	0.695105	175.86095	0.690312
198	V	177.34956	0.442341	177.40023	0.433886	177.45015	0.690268
199	E	176.50284	0.699776	176.52713	0.694918	176.55108	0.690186
200	V	177.79166	0.442103	177.83388	0.433652	177.87547	0.690230
201	E	177.20246	0.699619	177.22189	0.694762	177.24105	0.689971
202	V	178.23357	0.441905	178.26734	0.433458	178.31034	0.690191
203	E	177.90196	0.699494	177.91653	0.694637	177.93089	0.690125
204	V	178.67531	0.441747	178.70064	0.433302	178.72559	0.690153
205	E	178.60136	0.699400	178.61107	0.694543	178.62065	0.689753
206	V	179.11694	0.441628	179.13383	0.433185	179.15046	0.6900115
207	E	179.30069	0.699337	179.30555	0.694481	179.31034	0.689691
208	V	179.55849	0.441549	179.56693	0.433108	179.57525	0.6900076
209	E	180.00000	0.699306	180.00000	0.694450	180.00000	0.689660
210	V	180.00000	0.441509	180.00000	0.433069	180.00000	0.424752

ECCENTRICITY M		0.46			0.47			0.48		
		1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.
1	E	1.85158			1.88649			1.92274		
2	V	3.04409			3.14127			3.24321		
3	V	3.70151			3.77117			3.84349		
4	E	6.08277			6.27652			6.47970		
5	V	1.846662	0.003271		1.884681	0.003600		1.920750	0.003966	
6	V	3.027947	0.010737		3.123285	0.011965		3.236489	0.013348	
7	E	7.38997	0.004867		7.52798	0.005353		7.67117	0.005891	
8	V	12.12273	0.015938		12.50555	0.017748		12.90620	0.019782	
9	V	3.012009	0.006416		3.093639	0.007050		3.203359	0.007753	
10	V	2.991063	0.020946		3.082240	0.023297		3.1903140	0.025936	
11	V	2.991063	0.020946		3.082240	0.023297		3.1903140	0.025936	
12	V	1.827476	0.007903		1.860003	0.008675		1.893612	0.009528	
13	V	2.965360	0.025703		3.053690	0.028550		3.145686	0.031737	
14	V	1.818157	0.009319		1.849788	0.010215		1.882407	0.011205	
15	V	2.101435	0.030163		2.166152	0.033448		2.233788	0.037114	
16	E	14.67849	0.010651		1.838130	0.011658		1.869640	0.012767	
17	V	23.51526	0.034286		2.982295	0.037947		3.066552	0.042020	
18	V	16.47410	0.011891		1.825135	0.012995		1.855435	0.014205	
19	V	2.795615	0.011891		1.825135	0.012995		1.855435	0.014205	
20	V	2.862870	0.038041		2.940281	0.042014		3.020136	0.046416	
21	V	1.782582	0.013033		1.810919	0.014216		1.839925	0.015510	
22	V	2.821462	0.041408		2.894656	0.045625		2.969856	0.050280	
23	V	20.02519	0.014074		1.795598	0.015321		1.823244	0.016681	
24	V	32.37668	0.043373		2.845886	0.048770		2.916255	0.053601	
25	V	21.77869	0.015009		1.779293	0.016305		1.805532	0.017712	
26	V	35.10683	0.046934		2.794438	0.051448		2.859872	0.056383	
27	E	23.51635	0.015838		1.762123	0.017170		1.786925	0.018607	
28	V	37.78789	0.049096		2.391765	0.053666		2.801232	0.058640	
29	V	25.23745	0.016564		1.744209	0.017914		1.767556	0.019369	
30	V	40.41809	0.050866		2.685330	0.055442		2.740837	0.060395	
31	V	26.94136	0.017186		1.752664	0.018545		1.774554	0.020002	
32	V	42.99601	0.052264		2.628532	0.056798		2.679160	0.061677	
33	V	28.62756	0.017710		1.706598	0.019066		1.727042	0.020512	
34	V	45.52063	0.053310		2.570773	0.057759		2.616638	0.062522	
35	E	30.29562	0.018141		1.687116	0.019482		1.706135	0.020907	
36	V	47.99123	0.054027		2.512416	0.058357		2.553671	0.062367	
37	V	31.94520	0.018481		1.667316	0.019800		1.684939	0.021196	
38	V	50.40738	0.054441		2.453790	0.058626		2.490617	0.063054	
39	V	33.57604	0.018740		1.647287	0.020029		1.663553	0.021386	
40	V	52.76894	0.054583		2.395192	0.058598		2.427794	0.062823	
41	V	35.18796	0.018920		1.627112	0.020175		1.642065	0.021488	
42	V	55.07603	0.054478		2.336885	0.058307		2.365481	0.062313	
43	E	36.78084	0.019031		1.606869	0.020243		1.620556	0.021509	
44	V	57.32897	0.054154		2.279098	0.057787		2.303917	0.061564	
45	V	38.35466	0.019077		1.586623	0.020246		1.599097	0.021459	
46	V	59.52827	0.053639		2.222030	0.057068		2.243306	0.060611	
47	V	39.90940	0.019065		1.566436	0.020187		1.577751	0.021346	
48	V	61.67460	0.052961		2.165849	0.056181		2.183815	0.059491	
49	V	41.44515	0.019001		1.546363	0.020073		1.556573	0.021178	
50	V	63.76880	0.052141		2.110695	0.055154		2.125583	0.058232	
51	V	42.96200	0.018891		1.526449	0.019914		1.535611	0.020962	
52	V	65.81179	0.051203		2.056683	0.054012		2.068720	0.056863	
53	E	44.46011	0.018740		1.506737	0.019712		1.514906	0.020705	
54	V	67.80461	0.050169		2.003906	0.052777		2.013310	0.055410	
55	V	45.93967	0.018554		1.4807260	0.019477		1.494493	0.020413	
56	V	69.74838	0.049057		1.952436	0.051470		1.959418	0.053892	
57	V	47.40090	0.018338		1.468050	0.019210		1.474400	0.020093	
58	V	71.64426	0.047883		1.902325	0.050511		1.907085	0.052333	
59	V	48.84402	0.018094		1.449132	0.018918		1.454652	0.019748	
60	V	73.49348	0.046644		1.853611	0.048714		1.856339	0.050746	
61	E	50.26932	0.017830		1.430926	0.018606		1.435266	0.019386	
62	V	75.29729	0.045412		1.806317	0.047294		1.807191	0.049148	

ECCENTRICITY e_M		$15^{\circ}46'$ DIF.		2ND DIF.		$19^{\circ}47'$ DIF.		2ND DIF.		$0^{\circ}48'$ 15° DIF.	
31	E	51.67707	1.407751	0.017547	52.30964	1.4412249	0.018277	0.018277	52.94944	1.416259	0.019007
	V	77.05696	1.759668	0.044139	78.55617	1.760455	0.045862	0.045862	80.07431	1.759641	0.047550
32	E	53.06758	1.390503	0.017248	53.07396	1.394314	0.017935	0.017935	54.34708	1.397641	0.018618
	V	78.77377	1.716812	0.042856	80.27219	1.716026	0.044429	0.044429	81.78799	1.713681	0.045960
33	E	54.44414	1.373565	0.016938	55.08069	1.376732	0.017582	0.017582	55.72650	1.379420	0.018221
	V	80.44901	1.675241	0.041571	81.94522	1.673021	0.043005	0.043005	83.45728	1.669289	0.044392
34	E	55.79809	1.356947	0.016618	56.44020	1.359511	0.017221	0.017221	57.08810	1.361602	0.017818
	V	82.08396	1.634951	0.040290	83.57664	1.631427	0.041594	0.041594	85.08372	1.626442	0.042847
35	E	57.13875	1.340656	0.016291	57.78285	1.342654	0.016857	0.016857	58.43229	1.346189	0.017413
	V	83.67989	1.595928	0.039023	85.16786	1.591222	0.040205	0.040205	86.66863	1.585108	0.041334
36	E	58.46344	1.324697	0.015959	59.12025	1.326166	0.016488	0.016488	59.75947	1.327182	0.017007
	V	85.23805	1.558157	0.037771	86.72025	1.552380	0.038842	0.038842	88.21408	1.545252	0.039856
37	E	59.77251	1.309072	0.015625	60.41907	1.310048	0.016118	0.016118	61.07005	1.310581	0.016601
	V	86.75966	1.521617	0.036540	88.23512	1.514873	0.037507	0.037507	89.72092	1.508835	0.038417
38	E	61.06630	1.293783	0.015289	61.71337	1.294298	0.015750	0.015750	62.36443	1.294382	0.016199
	V	88.24595	1.486282	0.035335	89.71379	1.478667	0.036206	0.036206	91.19073	1.469815	0.037020
39	E	62.34513	1.278831	0.014952	62.99228	1.278915	0.015383	0.015383	63.64302	1.278581	0.015801
	V	89.69807	1.452126	0.034156	91.15751	1.443728	0.034939	0.034939	92.62488	1.434150	0.035665
40	E	63.60934	1.264213	0.014618	64.25618	1.263897	0.015018	0.015018	64.90619	1.263175	0.015406
	V	91.11719	1.419119	0.033007	92.56753	1.410019	0.033709	0.033709	94.02468	1.399796	0.034354
41	E	64.85927	1.249929	0.014284	65.50542	1.249239	0.014658	0.014658	66.15435	1.248156	0.015019
	V	92.50442	1.387230	0.031889	93.94503	1.377502	0.032517	0.032517	95.39138	1.366707	0.033089
42	E	66.09524	1.235974	0.013955	66.74035	1.234936	0.014303	0.014303	67.38786	1.235519	0.014637
	V	93.86085	1.356427	0.030803	95.29117	1.346139	0.031363	0.031363	96.72622	1.334839	0.031868
43	E	67.31759	1.222345	0.013629	67.96134	1.220983	0.013953	0.013953	68.60712	1.219255	0.014264
	V	95.18752	1.326677	0.029750	96.60707	1.315892	0.030247	0.030247	98.03037	1.304147	0.030692
44	E	68.52663	1.209037	0.013308	69.16871	1.207374	0.013609	0.013609	69.81248	1.205359	0.013896
	V	96.48547	1.297947	0.028730	97.89379	1.286721	0.029171	0.029171	99.30496	1.274588	0.029559
45	E	69.72267	1.196046	0.012991	70.36281	1.194102	0.013272	0.013272	71.00430	1.191821	0.013538
	V	97.75567	1.270203	0.027744	99.15238	1.258589	0.028132	0.028132	100.55108	1.246117	0.028471
46	E	70.90604	1.183566	0.012580	71.54397	1.181162	0.012940	0.012940	72.18293	1.178633	0.013188
	V	98.99909	1.243412	0.026791	100.38383	1.231458	0.027131	0.027131	101.76977	1.218693	0.027424
47	E	72.07703	1.170990	0.012376	72.71252	1.168545	0.012617	0.012617	73.34872	1.165788	0.012845
	V	100.21663	1.217542	0.025870	101.58912	1.205289	0.026169	0.026169	102.96204	1.192273	0.026420
48	E	73.23594	1.158915	0.012075	73.86876	1.156244	0.012301	0.012301	74.50200	1.153276	0.012512
	V	101.40919	1.192559	0.024983	102.76917	1.180048	0.025241	0.025241	104.12886	1.166818	0.025455
49	E	74.38307	1.147132	0.011783	75.01301	1.144253	0.011991	0.011991	75.64308	1.141089	0.012187
	V	102.57762	1.168432	0.024127	103.92487	1.155698	0.024350	0.024350	105.27115	1.142287	0.024531
50	E	75.51871	1.135635	0.011497	76.14558	1.132563	0.011690	0.011690	76.77230	1.129218	0.011871
	V	103.72275	1.145130	0.023302	105.05707	1.132205	0.023493	0.023493	106.38979	1.118645	0.023642
51	E	76.64313	1.124419	0.011216	77.26674	1.121167	0.011396	0.011396	77.89996	1.117656	0.011562
	V	104.84537	1.122621	0.022509	106.16661	1.109535	0.022670	0.022670	107.48565	1.095853	0.022792
52	E	77.75660	1.113476	0.010943	78.37680	1.110058	0.011109	0.011109	78.99635	1.106393	0.011263
	V	105.94625	1.100877	0.021744	107.25427	1.1087657	0.021878	0.021878	108.59552	1.073877	0.021976
53	E	78.85941	1.102801	0.010675	79.47603	1.099229	0.010829	0.010829	80.09177	1.095421	0.010972
	V	107.02611	1.079868	0.021009	108.32080	1.066538	0.021119	0.021119	109.61221	1.052684	0.021193
54	E	79.95179	1.092385	0.010416	80.56470	1.088671	0.010558	0.010558	81.17650	1.084732	0.010689
	V	108.08568	1.059567	0.020501	109.36695	1.0463148	0.020390	0.020390	110.64445	1.032240	0.020444
55	E	81.03401	1.082224	0.010161	81.64308	1.078378	0.010293	0.010293	82.25082	1.074318	0.020414
	V	109.12563	1.039946	0.019621	110.39341	1.026459	0.019689	0.019689	111.65696	1.012515	0.019725
56	E	82.10633	1.072310	0.009914	82.71142	1.068342	0.010036	0.010036	83.31499	1.064171	0.010147
	V	110.14661	1.020980	0.018966	111.40085	1.007443	0.019016	0.019016	112.65044	0.993478	0.019037
57	E	83.16896	1.062638	0.009672	83.76998	1.058557	0.009785	0.009785	84.36928	1.054283	0.009888
	V	111.14925	1.002644	0.018336	112.38993	0.989072	0.018371	0.018371	113.62554	0.975102	0.018376
58	E	84.22216	1.053200	0.009438	84.81899	1.049015	0.009542	0.009542	85.41392	1.044647	0.009636
	V	112.13416	0.984912	0.017732	113.36125	0.971321	0.017751	0.017751	114.58290	0.957359	0.017743
59	E	85.26615	1.043990	0.009210	85.85870	1.039710	0.009305	0.009305	86.44918	1.032555	0.009392
	V	113.10193	0.967763	0.017149	114.31541	0.954165	0.017156	0.017156	115.52312	0.940222	0.017137
60	E	86.30116	1.035004	0.008986	86.88934	1.030634	0.009076	0.009076	87.47528	1.026101	0.009154
	V	114.05310	0.951174	0.016589	115.25299	0.937581	0.016584	0.016584	116.44679	0.923667	0.016555

ECCENTRICITY
M

		0.46 1ST DIF.	2ND DIF.	0.47 1ST DIF.	2ND DIF.	0.48 1ST DIF.	2ND DIF.
61	E	87.32739	1.026234	0.008770	0.008770	87.91112	1.021783
	V	114.98822	0.935122	0.016052	0.016052	116.17454	0.921545
62	E	88.34507	1.017674	0.008560	0.008560	88.92427	1.013169
	V	115.90781	0.919589	0.015533	0.015533	117.08057	0.906036
63	E	89.35439	1.009320	0.008354	0.008354	89.92900	1.004725
	V	116.81236	0.904552	0.015037	0.015037	117.97161	0.891033
64	E	90.35555	1.001166	0.008154	0.008154	90.92550	0.996508
	V	117.70236	0.889995	0.014557	0.014557	118.84812	0.876517
65	E	91.34876	0.993205	0.007961	0.007961	91.91399	0.988489
	V	118.57826	0.875898	0.014097	0.014097	119.71059	0.862467
66	E	92.33419	0.985434	0.007771	0.007771	92.889466	0.980664
	V	119.44050	0.862244	0.013654	0.013654	120.55946	0.848867
67	E	93.31204	0.977846	0.007588	0.007588	93.86769	0.973028
	V	120.28952	0.849017	0.013227	0.013227	121.39516	0.835698
68	E	94.28247	0.970437	0.007409	0.007409	94.83326	0.965575
	V	121.12572	0.836200	0.012817	0.012817	122.21810	0.822945
69	E	95.24568	0.963202	0.007235	0.007235	95.79156	0.958300
	V	121.94950	0.823778	0.012422	0.012422	123.02869	0.810590
70	E	96.20181	0.956136	0.007066	0.007066	96.74276	0.951137
	V	122.76123	0.811736	0.012042	0.012042	123.82731	0.798619
71	E	97.15105	0.949235	0.006901	0.006901	97.68702	0.944263
	V	123.56129	0.800060	0.011676	0.011676	124.61433	0.787017
72	E	98.09354	0.942494	0.006741	0.006741	98.62451	0.937492
	V	124.35003	0.788737	0.011323	0.011323	125.39010	0.775771
73	E	99.02945	0.935909	0.006585	0.006585	99.55539	0.930880
	V	125.12778	0.777754	0.010983	0.010983	126.15497	0.764867
74	E	99.95893	0.929476	0.006433	0.006433	100.47981	0.924423
	V	125.89488	0.767099	0.010655	0.010655	126.90926	0.754232
75	E	100.88212	0.923191	0.006285	0.006285	101.39973	0.918116
	V	126.65164	0.756759	0.010340	0.010340	127.65329	0.744035
76	E	101.79916	0.917049	0.006142	0.006142	102.30989	0.911955
	V	127.39837	0.746724	0.010035	0.010035	128.38738	0.734083
77	E	102.71021	0.911048	0.006001	0.006001	103.21582	0.905937
	V	128.13535	0.736982	0.009742	0.009742	129.11180	0.724426
78	E	103.61540	0.905183	0.005865	0.005865	104.11588	0.900057
	V	128.86287	0.727524	0.009458	0.009458	129.82685	0.715083
79	E	104.51485	0.899450	0.005733	0.005733	105.01019	0.894312
	V	129.58121	0.718338	0.009186	0.009186	130.53281	0.705954
80	E	105.40869	0.893848	0.005602	0.005602	105.89889	0.888698
	V	130.29063	0.709417	0.008921	0.008921	131.22993	0.697118
81	E	106.29706	0.888371	0.005477	0.005477	106.78210	0.883212
	V	130.99138	0.700750	0.008667	0.008667	131.91847	0.688538
82	E	107.18008	0.883017	0.005354	0.005354	107.65995	0.877850
	V	131.68371	0.692329	0.008421	0.008421	132.59867	0.680204
83	E	108.05786	0.877783	0.005234	0.005234	108.53236	0.872610
	V	132.36785	0.684146	0.008183	0.008183	133.27078	0.672107
84	E	108.93053	0.872665	0.005118	0.005118	109.40005	0.867488
	V	133.04404	0.676192	0.007954	0.007954	133.93501	0.664239
85	E	109.79819	0.867662	0.005003	0.005003	110.26293	0.862480
	V	133.71250	0.668460	0.007732	0.007732	134.59161	0.656593
86	E	110.66096	0.862769	0.004893	0.004893	111.12012	0.857585
	V	134.37345	0.660943	0.007517	0.007517	135.24077	0.649161
87	E	111.51894	0.857985	0.004784	0.004784	111.97292	0.852799
	V	135.02708	0.653633	0.007310	0.007310	135.88270	0.641935
88	E	112.37225	0.853306	0.004679	0.004679	112.82104	0.848120
	V	135.67360	0.646523	0.007110	0.007110	136.51761	0.634910
89	E	113.22098	0.848730	0.004576	0.004576	113.66648	0.843354
	V	136.31321	0.639608	0.006915	0.006915	137.14569	0.628078
90	E	114.06524	0.844255	0.004475	0.004475	114.50365	0.839071
	V	136.94609	0.632881	0.006727	0.006727	137.76713	0.621434

ECCENTRICITY M		Q ₄₆ 1ST DIF.	2ND DIF.	Q ₄₇ 1ST DIF.	2ND DIF.	Q ₄₈ 1ST DIF.	2ND DIF.
91	E	114.90512	0.839878	115.33835	0.004377	0.83686	0.004375
	V	137.57243	0.826335	138.38210	0.006546	0.8614970	0.006464
92	E	115.74071	0.835597	116.16876	0.004281	0.830417	0.004279
	V	138.19239	0.619966	138.99078	0.006369	0.608682	0.006289
93	E	116.57212	0.831409	116.99500	0.004188	0.826233	0.004184
	V	138.80616	0.613768	139.59334	0.006198	0.602563	0.006119
94	E	117.39943	0.827313	117.81714	0.004096	0.822141	0.004092
	V	139.41389	0.607735	140.18995	0.006033	0.596610	0.005953
95	E	118.22274	0.823306	118.63528	0.004007	0.818139	0.004002
	V	140.01576	0.601862	140.78077	0.005873	0.590815	0.005795
96	E	119.04213	0.819387	119.44950	0.003919	0.814224	0.003915
	V	140.62190	0.596145	141.36594	0.005717	0.585175	0.005640
97	E	119.85768	0.815552	120.25990	0.003835	0.810396	0.003828
	V	141.20248	0.590579	141.94563	0.005566	0.579684	0.005491
98	E	120.66948	0.811801	121.06653	0.003751	0.806651	0.003745
	V	141.78764	0.585159	142.51996	0.005420	0.574339	0.005345
99	E	121.47761	0.808132	121.86594	0.003669	0.802988	0.003663
	V	142.36752	0.579881	143.08910	0.005278	0.569135	0.005204
100	E	122.28216	0.804542	122.66894	0.003590	0.799405	0.003583
	V	142.94226	0.574741	143.65317	0.005140	0.564068	0.005067
101	E	123.08319	0.801031	123.46484	0.003511	0.795901	0.003504
	V	143.51200	0.569734	144.21230	0.005007	0.559133	0.004935
102	E	123.88078	0.797596	124.25731	0.003435	0.792473	0.003428
	V	144.07685	0.564858	144.76663	0.004876	0.5554327	0.004806
103	E	124.67502	0.794235	125.04643	0.003361	0.789120	0.003353
	V	144.63696	0.560108	145.31627	0.004750	0.549646	0.004681
104	E	125.46596	0.790947	125.83227	0.003288	0.785840	0.003280
	V	145.19244	0.555481	145.86136	0.004627	0.545087	0.004559
105	E	126.25370	0.787732	126.61491	0.003215	0.782633	0.003207
	V	145.74342	0.550973	146.40201	0.004508	0.540646	0.004441
106	E	127.03828	0.784586	127.39440	0.003146	0.779495	0.003138
	V	146.29000	0.546581	146.93833	0.004392	0.536320	0.004326
107	E	127.81979	0.781509	128.17083	0.003077	0.776427	0.003068
	V	146.83230	0.542303	147.47043	0.004278	0.532106	0.004214
108	E	128.59829	0.778499	128.94425	0.003010	0.773426	0.003001
	V	147.37043	0.538134	147.99843	0.004169	0.528001	0.004105
109	E	129.37385	0.775556	129.71474	0.002943	0.770491	0.002935
	V	147.90450	0.534072	148.52243	0.004062	0.524001	0.004000
110	E	130.14652	0.772677	130.48237	0.002879	0.767621	0.002870
	V	148.43462	0.530114	149.04254	0.003958	0.520104	0.003897
111	E	130.91638	0.769861	131.24718	0.002816	0.764814	0.002807
	V	148.96088	0.526258	149.55885	0.003856	0.516308	0.003796
112	E	131.68349	0.767108	132.00925	0.002753	0.762070	0.002744
	V	149.48338	0.522500	150.07146	0.003758	0.512609	0.003699
113	E	132.44791	0.764415	132.76864	0.002693	0.759386	0.002684
	V	150.00222	0.518839	150.58046	0.003661	0.509006	0.003603
114	E	133.20969	0.761783	133.52540	0.002632	0.756763	0.002623
	V	150.51749	0.515271	151.08596	0.003568	0.505495	0.003511
115	E	133.96890	0.759209	134.27960	0.002574	0.754198	0.002565
	V	151.02928	0.511795	151.58803	0.003476	0.502074	0.003421
116	E	134.72559	0.756693	135.03129	0.002516	0.751691	0.002507
	V	151.53769	0.508409	152.08677	0.003386	0.498742	0.003332
117	E	135.47982	0.754234	135.78053	0.002459	0.749241	0.002450
	V	152.04280	0.505109	152.58227	0.003300	0.495496	0.003246
118	E	136.23165	0.751830	136.52738	0.002404	0.746846	0.002395
	V	152.54469	0.501895	153.07460	0.003214	0.492334	0.003162
119	E	136.98113	0.749481	137.27188	0.002349	0.744506	0.002340
	V	153.00346	0.498763	153.56386	0.003132	0.489253	0.003081
120	E	137.72832	0.747185	138.01410	0.002296	0.742220	0.002286
	V	153.53917	0.495713	154.05011	0.003050	0.486253	0.003000

ECCENTRICITY M		0.46		0.47		0.48	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
121	E	138.47326	0.744943	138.75409	0.739986	139.03150	0.735075
122	V	154.03191	0.492742	154.33344	0.483331	155.02847	0.474020
123	V	139.52176	0.742752	139.49189	0.737805	139.76441	0.732903
124	V	154.52176	0.489848	155.01392	0.480485	155.49569	0.471223
125	V	139.95663	0.740612	140.22757	0.735674	140.49519	0.730782
126	V	155.00879	0.487030	155.49164	0.477714	155.96819	0.468499
127	E	140.69515	0.738523	140.96116	0.733953	141.22390	0.728711
128	V	155.49308	0.484286	155.96665	0.475015	156.43404	0.465847
129	E	141.43163	0.736483	141.69272	0.731562	141.95059	0.726689
130	V	155.97469	0.481614	156.43904	0.472388	156.89730	0.463266
131	E	142.16612	0.734492	142.42230	0.729579	142.67530	0.724716
132	V	156.45370	0.479013	156.90887	0.469831	157.35806	0.460753
133	V	142.89867	0.732548	143.14995	0.727644	143.39810	0.722790
134	V	156.93019	0.476481	157.37621	0.467342	157.81836	0.458308
135	E	143.62932	0.730652	143.87510	0.725756	144.11901	0.720911
136	V	157.40420	0.474017	157.84114	0.464920	158.27229	0.455928
137	E	144.35813	0.728802	144.59962	0.723915	144.83809	0.719079
138	V	157.87582	0.471620	158.30370	0.462564	158.72590	0.453613
139	E	145.08512	0.726997	145.32174	0.722119	145.55398	0.717291
140	V	158.34511	0.469288	158.76397	0.460271	159.17727	0.451361
141	E	145.81036	0.725238	146.04210	0.720368	146.27093	0.715549
142	V	158.81213	0.467019	159.22201	0.458042	159.62644	0.449171
143	E	146.53388	0.723523	146.76077	0.718661	146.98478	0.713851
144	V	159.27694	0.464813	159.67789	0.455874	160.07348	0.447041
145	E	147.25574	0.721852	147.47776	0.716998	147.69697	0.712196
146	V	159.73961	0.462669	160.13165	0.453766	160.51845	0.444971
147	E	147.97596	0.720224	148.19314	0.715378	148.40756	0.710584
148	V	160.20019	0.460584	160.58337	0.451718	160.96141	0.442960
149	E	148.69460	0.718639	148.90694	0.713800	149.11657	0.709015
150	V	160.65875	0.458559	161.03310	0.449728	161.40241	0.441005
151	E	149.41170	0.717096	149.61921	0.712264	149.82406	0.707487
152	V	161.11535	0.456591	161.48089	0.447795	161.84152	0.439107
153	E	150.12729	0.715594	150.32998	0.710770	150.53006	0.706001
154	V	161.57002	0.454681	161.92681	0.445918	162.27878	0.437263
155	E	150.84142	0.714133	151.03929	0.709316	151.23462	0.704555
156	V	162.02285	0.452826	162.37091	0.444096	162.71426	0.435474
157	E	151.55413	0.712713	151.74719	0.707903	151.93776	0.703149
158	V	162.47388	0.451027	162.81324	0.442328	163.14800	0.433738
159	E	152.26547	0.711332	152.45372	0.706530	152.63955	0.701783
160	V	162.92316	0.449281	163.25385	0.440613	163.58005	0.432054
161	E	152.97546	0.709991	153.15892	0.705195	153.34000	0.700456
162	V	163.37075	0.447589	163.69280	0.438951	164.01047	0.430422
163	E	153.68415	0.708689	153.86282	0.703900	154.03917	0.699168
164	V	163.81670	0.445949	164.13014	0.437339	164.43331	0.428840
165	E	154.39157	0.707426	154.56546	0.702643	154.73709	0.697918
166	V	164.26106	0.444360	164.56592	0.435779	164.86662	0.427308
167	E	155.09777	0.706200	155.26689	0.701424	155.43379	0.696705
168	V	164.70388	0.442822	165.00019	0.434268	165.29244	0.425825
169	E	155.60279	0.705013	155.96713	0.700243	156.12932	0.695530
170	V	165.14521	0.441334	165.43299	0.432287	165.71684	0.424390
171	E	156.50665	0.703863	156.66623	0.699098	156.82372	0.694393
172	V	165.58511	0.439895	165.86643	0.431393	166.13984	0.423002
173	E	157.20940	0.702749	157.36422	0.697991	157.51701	0.693291
174	V	166.02361	0.438504	166.29441	0.430028	166.56150	0.421662
175	E	157.91107	0.701672	158.06114	0.696920	158.20923	0.692226
176	V	166.46078	0.437162	166.72312	0.428709	166.98186	0.420367
177	E	158.61170	0.700632	158.75702	0.695885	158.90043	0.691197
178	V	166.89664	0.435866	167.15056	0.427436	167.40098	0.419118
179	E	159.31133	0.699627	159.45191	0.694895	159.59063	0.690203
180	V	167.33126	0.434617	167.57677	0.426209	167.81890	0.417913

ECCENTRICITY M		0 ⁴⁶			0 ⁴⁷			0 ⁴⁸		
		1ST	2ND	DIF.	1ST	2ND	DIF.	1ST	2ND	DIF.
151	E	160.00999	0.698657	0.000970	160.14583	0.693921	0.000964	160.27988	0.689245	0.000958
	V	167.76467	0.433413	0.001204	168.00179	0.425027	0.001182	168.23565	0.416753	0.001160
152	E	160.70771	0.697723	0.000934	160.83882	0.692992	0.000929	160.96820	0.688321	0.000924
	V	168.19693	0.432255	0.001158	168.42569	0.423890	0.001137	168.65129	0.415637	0.001116
153	E	161.40453	0.696824	0.000899	161.53032	0.692098	0.000894	161.65563	0.687432	0.000889
	V	168.62807	0.431141	0.001114	168.84948	0.422797	0.001093	169.06581	0.414564	0.001073
154	E	162.10049	0.695959	0.000865	162.22216	0.691238	0.000860	162.34221	0.686577	0.000855
	V	169.05814	0.430072	0.001069	169.27023	0.421747	0.001050	169.47939	0.413533	0.001031
155	E	162.79562	0.695129	0.000830	162.91257	0.690412	0.000826	163.02796	0.685756	0.000821
	V	169.48719	0.429047	0.001025	169.69097	0.420740	0.001007	169.89193	0.412545	0.000988
156	E	163.48996	0.694333	0.000796	163.60219	0.689620	0.000792	163.71293	0.684968	0.000788
	V	169.91525	0.428064	0.000983	170.11074	0.419775	0.000965	170.30353	0.411598	0.000947
157	E	164.18353	0.693570	0.000763	164.29105	0.688862	0.000758	164.39715	0.684215	0.000753
	V	170.34237	0.427125	0.000939	170.52960	0.418853	0.000922	170.71422	0.410693	0.000905
158	E	164.87637	0.692842	0.000728	164.97919	0.688137	0.000725	165.08064	0.683494	0.000721
	V	170.76860	0.426227	0.000896	170.94757	0.417972	0.000881	171.12405	0.409828	0.000865
159	E	165.56851	0.692146	0.000696	165.66664	0.687445	0.000692	165.76345	0.682806	0.000688
	V	171.19397	0.425372	0.000855	171.36470	0.417132	0.000840	171.53305	0.409004	0.000824
160	E	166.26000	0.691483	0.000663	166.35342	0.686787	0.000658	166.44360	0.682151	0.000655
	V	171.61853	0.424558	0.000814	171.78103	0.416333	0.000799	171.94127	0.408220	0.000784
161	E	166.95085	0.690854	0.000629	167.03958	0.686161	0.000626	167.12713	0.681529	0.000622
	V	172.04232	0.423785	0.000773	172.19661	0.415574	0.000759	172.34875	0.407475	0.000745
162	E	167.64111	0.690257	0.000597	167.72515	0.685567	0.000594	167.80807	0.680939	0.000590
	V	172.64537	0.423053	0.000732	172.61146	0.414855	0.000719	172.75552	0.406770	0.000705
163	E	168.33080	0.689692	0.000565	168.41015	0.685006	0.000561	168.48845	0.680381	0.000558
	V	172.88773	0.422361	0.000692	173.02564	0.414176	0.000679	173.16162	0.406104	0.000666
164	E	169.01996	0.689160	0.000532	169.09463	0.684477	0.000529	169.16830	0.679855	0.000526
	V	173.30944	0.421710	0.000651	173.43917	0.413357	0.000639	173.56710	0.4035476	0.000628
165	E	169.70862	0.688660	0.000500	169.77861	0.683980	0.000497	169.84766	0.679361	0.000494
	V	173.73054	0.421098	0.000612	173.85211	0.412936	0.000601	173.97198	0.404887	0.000589
166	E	170.39681	0.688192	0.000468	170.46213	0.683314	0.000466	170.52656	0.678898	0.000463
	V	174.15107	0.420526	0.000572	174.26448	0.412374	0.000562	174.37632	0.4040336	0.000551
167	E	171.08457	0.687756	0.000436	171.14521	0.683081	0.000433	171.20503	0.678466	0.000431
	V	174.57106	0.419993	0.000533	174.67634	0.411851	0.000523	174.78014	0.403822	0.000514
168	E	171.77192	0.687352	0.000404	171.82788	0.682678	0.000403	171.88309	0.678068	0.000399
	V	174.99056	0.419500	0.000493	175.08770	0.411367	0.000484	175.18349	0.670347	0.000475
169	E	172.45890	0.686979	0.000373	172.51019	0.682308	0.000370	172.56079	0.677699	0.000369
	V	175.40960	0.419045	0.000455	175.49862	0.410920	0.000447	175.58640	0.670298	0.000439
170	E	173.14554	0.686638	0.000341	173.19216	0.681968	0.000340	173.23816	0.677362	0.000337
	V	175.82823	0.418628	0.000417	175.90913	0.410511	0.000409	175.98890	0.6702507	0.000401
171	E	173.83187	0.686328	0.000310	173.87382	0.681660	0.000308	173.91521	0.677055	0.000307
	V	176.24648	0.418250	0.000378	176.31927	0.410140	0.000371	176.39105	0.6702143	0.000364
172	E	174.51791	0.686049	0.000279	174.55520	0.681383	0.000277	174.59199	0.676780	0.000275
	V	176.66439	0.417911	0.000339	176.72908	0.409807	0.000333	176.79287	0.6701816	0.000327
173	E	175.20371	0.685801	0.000248	175.23634	0.681137	0.000246	175.26853	0.676535	0.000245
	V	177.08200	0.417609	0.000302	177.13859	0.409511	0.000296	177.19439	0.6701526	0.000290
174	E	175.88930	0.685585	0.000216	175.91726	0.680922	0.000215	175.94485	0.676321	0.000214
	V	177.49935	0.417346	0.000263	177.54784	0.409257	0.000259	177.59566	0.6701272	0.000254
175	E	176.57470	0.685400	0.000185	176.59800	0.680737	0.000185	176.62099	0.6761138	0.000183
	V	177.91647	0.417120	0.000226	177.95687	0.409031	0.000221	177.99672	0.6701055	0.000217
176	E	177.25994	0.685245	0.000155	177.27859	0.680584	0.000153	177.29697	0.675986	0.000152
	V	178.33340	0.416932	0.000188	178.36572	0.408846	0.000185	178.39759	0.6700874	0.000181
177	E	177.94507	0.685122	0.000123	177.95905	0.680461	0.000123	177.97282	0.6758664	0.000122
	V	178.75018	0.416782	0.000150	178.77442	0.408659	0.000145	178.79834	0.6700729	0.000145
178	E	178.63010	0.685029	0.000093	178.63942	0.680369	0.000092	178.64861	0.675772	0.000092
	V	179.16685	0.416669	0.000113	179.18301	0.408588	0.000111	179.19894	0.6700620	0.000109
179	E	179.31506	0.684967	0.000062	179.31972	0.680308	0.000061	179.32432	0.675711	0.000061
	V	179.58344	0.416594	0.000075	179.59152	0.408515	0.000075	179.59949	0.6700548	0.000072
180	E	180.00000	0.684937	0.000030	180.00000	0.680277	0.000031	180.00000	0.675681	0.000030
	V	180.00000	0.416557	0.000037	180.00000	0.408478	0.000037	180.00000	0.400512	0.000036

ECCENTRICITY M		0.49		2ND DIF.		0.50		2ND DIF.		0.51		2ND DIF.	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
1	E	1.96042		1.99959		1.997165		2.04037		2.037682		0.005332	
2	E	3.35023		3.46270		3.99676		3.58099		3.571574		0.018665	
3	E	6.69295		6.91699		1.992340		7.15257		2.032350		0.027575	
4	E	5.87248		5.98910		3.47620		6.11040		3.525334		0.010365	
5	E	10.02077		10.35461		3.937620		10.70547		2.024447		0.036003	
6	E	7.81983		7.97428		1.985181		8.13485		3.489331		0.012687	
7	E	13.32651		13.76757		3.412964		14.23081		2.014082		0.043817	
8	E	9.75866		9.95006		1.975782		10.14893		3.465510		0.050920	
9	E	16.60335		17.14829		3.80723		17.72014		1.969731		0.016819	
10	E	11.68700		11.91432		1.984259		12.15033		2.001395		0.027234	
11	E	19.84488		20.48970		3.341408		21.13688		3.445550		0.028577	
12	E	13.60305		13.86507		1.950752		14.13688		3.455144		0.021134	
13	E	23.04519		23.78532		3.295616		24.56025		1.969731		0.050920	
14	E	15.50311		15.80049		1.935417		16.10661		3.465510		0.016819	
15	E	26.19896		27.02933		3.244012		27.89761		2.014082		0.043817	
16	E	17.39164		17.71891		1.918424		18.05774		3.465510		0.050920	
17	E	3.102468		3.021663		3.187301		3.117225		1.969731		0.027234	
18	E	1.869602		1.899950		0.018474		1.938871		3.465510		0.050920	
19	E	3.047051		3.34284		3.126214		3.437955		2.014082		0.043817	
20	E	1.851441		1.880175		0.019775		2.019775		3.465510		0.050920	
21	E	2.988144		3.061481		0.064733		3.136173		1.969731		0.027234	
22	E	1.832201		1.859280		0.020895		2.020895		3.465510		0.050920	
23	E	2.926367		2.993814		0.007667		3.057781		2.014082		0.043817	
24	E	1.812040		1.837440		0.021840		2.021840		3.465510		0.050920	
25	E	2.862321		2.923898		0.069916		3.056361		1.969731		0.027234	
26	E	1.791106		1.814826		0.022614		2.022614		3.465510		0.050920	
27	E	2.796572		2.852372		0.01526		2.01526		3.465510		0.050920	
28	E	1.769545		1.791597		0.023229		2.023229		1.969731		0.027234	
29	E	2.729651		2.779825		0.023693		2.023693		3.465510		0.050920	
30	E	1.747492		1.767904		0.023034		2.023034		1.969731		0.027234	
31	E	2.662041		2.706791		0.023034		2.023034		3.465510		0.050920	
32	E	1.725074		1.743397		0.024019		2.024019		1.969731		0.027234	
33	E	2.594178		2.633742		0.073049		2.073049		3.465510		0.050920	
34	E	1.702405		1.719666		0.024219		2.024219		1.969731		0.027234	
35	E	2.526450		2.561096		0.022646		2.022646		3.465510		0.050920	
36	E	1.679593		1.695358		0.024308		2.024308		1.969731		0.027234	
37	E	2.459196		2.489208		0.071888		2.071888		3.465510		0.050920	
38	E	1.656732		1.671064		0.024294		2.024294		1.969731		0.027234	
39	E	2.392707		2.418380		0.070828		2.070828		3.465510		0.050920	
40	E	1.633906		1.646872		0.024192		2.024192		1.969731		0.027234	
41	E	2.327229		2.348864		0.069516		2.069516		3.465510		0.050920	
42	E	1.616133		1.628862		0.024015		2.024015		1.969731		0.027234	
43	E	4.07397		4.066979		1.622857		4.127699		2.034034		0.069823	
44	E	3.87630		3.9318		2.20862		6.94374		1.584373		0.024652	
45	E	4.166262		4.26887		1.599087		4.288602		2.159285		0.067718	
46	E	6.07639		6.07671		2.214535		6.947039		1.560144		0.024239	
47	E	4.322895		4.384449		1.575617		4.474039		2.034034		0.069823	
48	E	6.21512		6.97572		2.150006		7.1133002		1.584373		0.024652	
49	E	4.477326		4.539699		1.552494		4.603053		2.159285		0.067718	
50	E	70.29411		71.84508		2.087364		73.42377		1.560144		0.024239	
51	E	4.629585		4.692674		1.529757		4.756691		2.034034		0.069823	
52	E	72.31504		73.87175		2.026672		75.45421		1.584373		0.024652	
53	E	4.79708		4.83438		1.507438		4.940800		2.159285		0.067718	
54	E	4.27966		4.33972		1.967964		4.923282		1.560144		0.024239	
55	E	4.927732		4.991974		1.485560		5.057032		2.034034		0.069823	
56	E	1.964622		1.985972		0.021878		2.021878		1.969731		0.027234	
57	E	1.910086		1.911256		0.056708		1.910529		3.465510		0.050920	
58	E	50.73699		51.38388		1.464144		52.03839		1.969731		0.027234	
59	E	1.857337		1.856547		0.054709		1.853914		3.465510		0.050920	
60	E	1.439499		1.433203		0.020941		1.446361		1.969731		0.027234	
61	E	1.806374		1.803818		0.052729		1.799484		3.465510		0.050920	

ECCENTRICITY

			0 ⁴⁹ DIF.	2ND DIF.	1 ⁵⁰ DIF.	2ND DIF.	0 ⁵¹ DIF.	2ND DIF.
31	E	53.59625	1.419764	0.019735	1.422746	0.020457	54.30994	1.425191
	V	81.61064	1.757183	0.049191	1.753044	0.050774	84.73469	1.747192
32	E	54.99671	1.400467	0.019297	1.402780	0.019966	56.31451	1.404566
	V	83.32039	1.709743	0.047440	1.704185	0.048857	86.43167	1.696986
33	E	55.37833	1.381615	0.018852	1.383306	0.019474	57.69899	1.384483
	V	85.98441	1.664021	0.045722	1.657196	0.046989	88.08048	1.648805
34	E	57.74154	1.363209	0.018406	1.364324	0.018982	59.06393	1.364940
	V	86.60439	1.619980	0.044041	1.612029	0.045167	89.68306	1.602584
35	E	59.08679	1.345251	0.017958	1.345833	0.018491	60.40986	1.345930
	V	88.18196	1.577578	0.042402	1.568626	0.043403	91.24132	1.558256
36	E	60.41453	1.327727	0.017514	1.327827	0.018006	61.73731	1.327447
	V	89.71873	1.536769	0.040809	1.526932	0.041694	92.75707	1.515751
37	E	61.72519	1.310666	0.017071	1.310299	0.017528	63.04679	1.309481
	V	91.21624	1.497504	0.039265	1.486887	0.040045	94.23207	1.474998
38	E	63.01922	1.294031	0.016635	1.293244	0.017055	64.33881	1.292021
	V	92.67597	1.459732	0.037772	1.448431	0.038456	95.66799	1.435927
39	E	64.29705	1.277827	0.016204	1.276652	0.016592	65.61387	1.275058
	V	94.09937	1.423403	0.036329	1.411502	0.036929	97.06646	1.398467
40	E	65.55910	1.262046	0.015781	1.260513	0.016139	66.87245	1.258578
	V	95.48784	1.388463	0.034940	1.376041	0.035461	98.42901	1.362551
41	E	66.80378	1.246682	0.015364	1.244819	0.015694	68.11502	1.242570
	V	96.84270	1.354861	0.033602	1.341987	0.034054	99.75712	1.328110
42	E	68.03750	1.231725	0.014957	1.229557	0.015262	69.34204	1.227021
	V	98.16524	1.322546	0.032315	1.309283	0.032704	101.05220	1.295079
43	E	69.25467	1.217166	0.014559	1.214718	0.014839	70.55396	1.211918
	V	99.45671	1.291465	0.031081	1.277871	0.031412	102.31559	1.263394
44	E	70.45766	1.202996	0.014170	1.200291	0.014427	71.75121	1.197249
	V	100.71828	1.261571	0.029894	1.247696	0.030175	103.54859	1.232994
45	E	71.64687	1.189206	0.013790	1.186264	0.014027	72.93421	1.183001
	V	101.95109	1.232813	0.028758	1.218704	0.028992	104.75241	1.203820
46	E	72.82266	1.175786	0.013420	1.172626	0.013638	74.10337	1.169160
	V	103.15624	1.205145	0.027668	1.190842	0.027862	105.92822	1.175816
47	E	73.98538	1.162726	0.013060	1.159365	0.013261	75.25908	1.155714
	V	104.33476	1.178521	0.028624	1.164062	0.028678	107.07715	1.148926
48	E	75.13540	1.150216	0.012710	1.146472	0.012893	76.40173	1.142651
	V	105.48765	1.152896	0.025625	1.138314	0.025748	108.20025	1.123100
49	E	76.27304	1.137647	0.012369	1.133934	0.012538	77.53169	1.129959
	V	106.61588	1.128229	0.024667	1.113552	0.024762	109.29854	1.098288
50	E	77.39865	1.125608	0.012039	1.121741	0.012193	78.64931	1.117625
	V	107.72036	1.104478	0.023751	1.089733	0.023819	110.37298	1.074441
51	E	78.51254	1.113892	0.011716	1.109883	0.011858	79.75495	1.105637
	V	108.80196	1.081603	0.022875	1.066814	0.022919	111.42450	1.051516
52	E	79.61503	1.102487	0.011405	1.098348	0.011535	80.84894	1.093986
	V	109.86153	1.059567	0.022036	1.044755	0.022059	112.45397	1.029470
53	E	80.70642	1.091384	0.011103	1.087127	0.011221	81.93160	1.082658
	V	110.89987	1.038334	0.021233	1.023517	0.021238	113.46223	1.008262
54	E	81.78699	1.080576	0.010808	1.076210	0.010917	83.00324	1.071645
	V	111.91773	1.017869	0.020465	1.003064	0.020453	114.45008	0.987852
55	E	82.85704	1.070052	0.010524	1.065588	0.010622	84.06418	1.060934
	V	112.91587	0.998139	0.019730	0.983360	0.019704	115.41828	0.968205
56	E	83.91685	1.059804	0.010248	1.055250	0.010338	85.11469	1.050517
	V	113.89499	0.979113	0.019026	0.964373	0.018987	116.36757	0.949285
57	E	84.96667	1.049824	0.009980	1.045188	0.010062	86.15508	1.040384
	V	114.85575	0.960759	0.018354	0.946070	0.018303	117.29863	0.931059
58	E	86.00677	1.040104	0.009720	1.035394	0.009794	87.18560	1.030525
	V	115.79880	0.943050	0.017709	0.928421	0.017649	118.21212	0.913496
59	E	87.03741	1.030635	0.009469	1.025858	0.009536	88.20653	1.020931
	V	116.72475	0.925958	0.017092	0.911398	0.017023	119.10869	0.896566
60	E	88.05882	1.021411	0.009224	1.016573	0.009285	89.21813	1.011594
	V	117.63421	0.909457	0.016501	0.894974	0.016424	119.98893	0.880241
								0.016325

ECCENTRICITY M		0.49 1ST DIF.	2ND DIF.	0.50 1ST DIF.	2ND DIF.	0.51 1ST DIF.	2ND DIF.
61	E	89.07124	0.008988	89.64735	0.007530	90.22063	0.009043
	E	110.52773	0.015935	119.69412	0.079122	120.85343	0.015748
62	V	90.07491	0.008759	90.64607	0.098721	91.21429	0.008809
	E	119.40704	0.015394	120.55794	0.015304	121.70272	0.0849298
63	V	91.07004	0.008536	91.63621	0.090141	92.19932	0.008618
	V	120.26912	0.014874	121.40698	0.849038	122.53735	0.834631
64	E	92.05684	0.008321	92.61799	0.981780	93.17597	0.976644
	V	121.11799	0.014375	122.24174	0.834760	123.35782	0.820469
65	E	93.03554	0.008111	93.59162	0.973633	94.14444	0.968469
	E	121.95297	0.013899	123.06270	0.820963	124.16461	0.806790
66	E	94.00633	0.007909	94.55731	0.965693	95.10494	0.960504
	V	122.77451	0.013441	123.87033	0.807627	124.95819	0.793574
67	E	94.96940	0.007712	95.51527	0.957953	96.05768	0.952743
	V	123.58305	0.013001	124.66506	0.794733	125.73899	0.780801
68	E	95.92495	0.007522	96.48567	0.950407	97.00286	0.945179
	V	124.37901	0.012580	125.44732	0.902471	126.50744	0.768452
69	E	96.87317	0.007336	97.40872	0.943049	97.94067	0.937806
	V	125.16279	0.012175	126.21752	0.770196	127.26395	0.756510
70	E	97.81423	0.007157	98.34460	0.935874	98.87129	0.930619
	V	125.93479	0.011787	126.97604	0.758521	128.00891	0.744958
71	E	98.74831	0.006983	99.27347	0.928876	99.79490	0.923610
	V	126.69537	0.011414	127.72326	0.747219	128.74269	0.733780
72	E	99.67557	0.006813	100.19552	0.922049	100.71167	0.916776
	V	127.44489	0.011056	128.45954	0.736277	129.46565	0.722961
73	E	100.59619	0.006649	101.11091	0.915390	101.62178	0.910110
	V	128.18371	0.010711	129.18521	0.725679	130.17814	0.712486
74	E	101.51031	0.006490	102.01980	0.908891	102.52539	0.903608
	V	128.91215	0.010379	129.90063	0.715412	130.88048	0.702342
75	E	102.41810	0.006335	102.92235	0.902350	103.42266	0.897265
	V	129.63052	0.010062	130.60609	0.705464	131.57299	0.692515
76	E	103.31971	0.006184	103.81871	0.896360	104.31373	0.891075
	V	130.33914	0.009754	131.30191	0.695821	132.25599	0.682993
77	E	104.21528	0.006038	104.70903	0.890319	105.19876	0.885034
	V	131.03830	0.009460	131.98839	0.686473	132.92975	0.673765
78	E	105.10495	0.005896	105.59346	0.884421	106.07790	0.879139
	V	131.72828	0.009176	132.66579	0.677409	133.59457	0.664819
79	E	105.98886	0.005758	106.47212	0.878663	106.95129	0.873385
	V	132.40937	0.008902	133.33441	0.668617	134.25072	0.656144
80	E	106.86715	0.005624	107.34516	0.873041	107.81906	0.867767
	V	133.08181	0.008638	133.99450	0.660087	134.89845	0.647730
81	E	107.73995	0.005493	108.21271	0.867550	108.68134	0.862282
	V	133.74587	0.008385	134.64631	0.651810	135.53801	0.639567
82	E	108.60738	0.005365	109.07490	0.862188	109.53826	0.856926
	V	134.40179	0.008140	135.29009	0.643777	136.16966	0.631647
83	E	109.46957	0.005243	109.93185	0.856950	110.38996	0.851696
	V	135.04980	0.007904	135.92607	0.635979	136.79362	0.623960
84	E	110.32664	0.005121	110.78368	0.851833	111.23655	0.846587
	V	135.69014	0.007677	136.55447	0.628407	137.41012	0.616497
85	E	111.17870	0.005005	111.63051	0.846834	112.07814	0.841598
	V	136.32302	0.007456	137.17553	0.621053	138.01937	0.609252
86	E	112.02587	0.004891	112.47246	0.841951	112.91487	0.836723
	V	136.94866	0.007244	137.78943	0.613910	138.62158	0.602215
87	E	112.86827	0.004779	113.30964	0.837179	113.74683	0.831962
	V	137.56126	0.007040	138.39641	0.606971	139.21696	0.595380
88	E	113.70599	0.004672	114.14216	0.832515	114.57414	0.827309
	V	138.17901	0.006842	138.99663	0.600228	139.80570	0.588740
89	E	114.53914	0.004566	114.97012	0.827958	115.39690	0.822763
	V	138.78412	0.006650	139.59031	0.593675	140.38799	0.582287
90	E	115.36783	0.004463	115.79362	0.823504	116.21522	0.818321
	V	139.38276	0.006466	140.17761	0.587305	140.96401	0.576016

ECCENTRICITY M	10 ⁴⁸ DIF.	2ND DIF.	10 ⁵⁰ DIF.	2ND DIF.	10 ⁵¹ DIF.	2ND DIF.
91 E	116.19216	0.824329	116.61277	0.004363	0.819151	0.004353
91 V	139.97511	0.592353	140.75373	0.006287	0.581112	0.006193
92 E	117.01223	0.820064	117.42767	0.004265	0.814896	0.004255
92 V	140.56135	0.586239	141.33381	0.006114	0.575090	0.006022
93 E	117.82812	0.815894	118.23841	0.004170	0.810737	0.004159
93 V	141.14165	0.580292	141.93305	0.005947	0.569234	0.005856
94 E	118.63994	0.811817	0.004077	0.004077	0.806670	0.004067
94 V	141.71615	0.574507	0.005785	0.005785	0.563539	0.005695
95 E	119.44777	0.807831	0.003986	0.003986	0.802695	0.003975
95 V	142.28503	0.568879	0.005628	0.005628	0.557998	0.005541
96 E	120.25170	0.803933	0.003898	0.003898	0.799809	0.003886
96 V	142.84843	0.563403	0.005476	0.005476	0.552608	0.005390
97 E	121.05183	0.800122	0.003811	0.003811	0.795009	0.003800
97 V	143.40651	0.568074	0.005329	0.005329	0.547364	0.005244
98 E	121.84822	0.796395	0.003727	0.003727	0.791295	0.003714
98 V	143.95940	0.552887	0.005187	0.005187	0.542360	0.005104
99 E	122.64097	0.792751	0.003644	0.003644	0.787662	0.003633
99 V	144.50723	0.547839	0.005048	0.005048	0.537293	0.004967
100 E	123.43016	0.789187	0.003564	0.003564	0.784111	0.003551
100 V	145.05016	0.542924	0.004915	0.004915	0.532459	0.004834
101 E	124.21586	0.785703	0.003484	0.003484	0.780638	0.003473
101 V	145.58830	0.538140	0.004784	0.004784	0.527753	0.004706
102 E	124.99816	0.782295	0.003408	0.003408	0.777243	0.003395
102 V	146.12178	0.533482	0.004658	0.004658	0.523172	0.004581
103 E	125.77712	0.778962	0.003333	0.003333	0.773922	0.003321
103 V	146.65073	0.528946	0.004536	0.004536	0.518712	0.004460
104 E	126.55282	0.775703	0.003259	0.003259	0.770676	0.003246
104 V	147.17526	0.524530	0.004416	0.004416	0.514369	0.004343
105 E	127.32534	0.772516	0.003187	0.003187	0.767502	0.003174
105 V	147.69549	0.520229	0.004301	0.004301	0.510141	0.004228
106 E	128.09474	0.769040	0.003116	0.003116	0.764398	0.003104
106 V	148.21152	0.516040	0.004189	0.004189	0.506023	0.004118
107 E	128.86109	0.766353	0.003047	0.003047	0.761363	0.003035
107 V	148.72349	0.511960	0.004080	0.004080	0.502013	0.004010
108 E	129.62446	0.763373	0.002980	0.002980	0.758396	0.002967
108 V	149.23147	0.507987	0.003973	0.003973	0.498108	0.003905
109 E	130.38492	0.760460	0.002913	0.002913	0.755495	0.002901
109 V	149.73559	0.504117	0.003870	0.003870	0.494304	0.003804
110 E	131.14253	0.757611	0.002849	0.002849	0.752659	0.002836
110 V	150.23594	0.500347	0.003770	0.003770	0.490600	0.003704
111 E	131.89736	0.754826	0.002785	0.002785	0.749886	0.002773
111 V	150.73261	0.496675	0.003672	0.003672	0.486992	0.003608
112 E	132.64946	0.752103	0.002723	0.002723	0.747175	0.002711
112 V	151.22571	0.493098	0.003577	0.003577	0.483477	0.003515
113 E	133.39890	0.749441	0.002662	0.002662	0.744526	0.002649
113 V	151.71532	0.489614	0.003484	0.003484	0.478456	0.003423
114 E	134.14574	0.746899	0.002602	0.002602	0.741936	0.002590
114 V	152.20154	0.486220	0.003394	0.003394	0.474193	0.003343
115 E	134.89004	0.744296	0.002543	0.002543	0.739405	0.002531
115 V	152.68446	0.482914	0.003306	0.003306	0.473473	0.003247
116 E	135.63185	0.741810	0.002486	0.002486	0.736931	0.002474
116 V	153.16415	0.479694	0.003220	0.003220	0.470310	0.003163
117 E	136.37123	0.739381	0.002429	0.002429	0.734514	0.002417
117 V	153.64071	0.476557	0.003137	0.003137	0.467230	0.003080
118 E	137.10824	0.737007	0.002374	0.002374	0.732152	0.002362
118 V	154.11421	0.473502	0.003055	0.003055	0.464230	0.003000
119 E	137.84292	0.734688	0.002319	0.002319	0.729844	0.002308
119 V	154.58473	0.470527	0.002975	0.002975	0.461308	0.002922
120 E	138.57535	0.732422	0.002266	0.002266	0.727590	0.002254
120 V	155.05236	0.467629	0.002898	0.002898	0.458463	0.002845

ECCENTRICITY M		0.49			0.50			0.51		
		1ST DIF.			1ST DIF.			1ST DIF.		
		2ND DIF.			2ND DIF.			2ND DIF.		
121	E	139.30556	0.730209	0.002213	139.57629	0.725388	0.002202	139.84377	0.720612	0.002190
122	V	155.51717	0.464807	0.002822	155.99972	0.455692	0.002771	156.47627	0.446673	0.002719
123	V	140.03360	0.728048	0.002161	140.29953	0.723238	0.002150	140.56224	0.718474	0.002138
124	V	135.97923	0.462060	0.002747	156.45271	0.452995	0.002697	156.92030	0.444026	0.002647
125	E	140.75954	0.725937	0.002111	141.02067	0.721138	0.002100	141.27863	0.716386	0.002088
126	V	156.43861	0.459384	0.002676	156.90308	0.450368	0.002627	157.36175	0.441449	0.002577
127	E	141.48342	0.723876	0.002061	141.73976	0.719088	0.002050	141.99297	0.714347	0.002039
128	E	156.89540	0.456780	0.002604	157.35089	0.447812	0.002556	157.80069	0.438941	0.002508
129	V	142.20528	0.721864	0.002012	142.45684	0.717087	0.002001	142.70533	0.712358	0.001989
130	V	157.34964	0.454245	0.002535	157.79621	0.445323	0.002489	158.23719	0.436499	0.002442
131	E	142.92518	0.719901	0.001963	143.17198	0.715134	0.001953	143.41575	0.710416	0.001942
132	V	157.80142	0.451777	0.002468	158.23911	0.442901	0.002422	158.67131	0.434123	0.002376
133	E	143.64317	0.717985	0.001916	143.88521	0.713229	0.001905	144.12427	0.708522	0.001894
134	V	158.25079	0.449375	0.002402	158.67966	0.440544	0.002357	159.10312	0.703810	0.002313
135	E	144.35928	0.716116	0.001869	144.59658	0.711370	0.001859	144.83094	0.706674	0.001848
136	V	158.69783	0.447039	0.002336	159.11791	0.438250	0.002294	159.53268	0.429561	0.002249
137	E	145.07357	0.714293	0.001823	145.30614	0.709557	0.001813	145.53581	0.704871	0.001803
138	V	159.14260	0.444765	0.002274	159.55393	0.436019	0.002231	159.96005	0.427372	0.002189
139	E	145.78609	0.712515	0.001778	146.01392	0.707789	0.001768	146.23893	0.703114	0.001757
140	V	159.45815	0.442554	0.002211	159.98778	0.433849	0.002170	160.38530	0.425244	0.002128
141	E	146.49687	0.710782	0.001733	146.71999	0.706066	0.001723	146.94033	0.701401	0.001713
142	V	160.02555	0.440404	0.002150	160.41952	0.431739	0.002110	160.80847	0.423174	0.002070
143	E	147.20597	0.709093	0.001689	147.42438	0.704386	0.001680	147.64006	0.699731	0.001670
144	V	160.46387	0.438313	0.002091	160.84920	0.429688	0.002051	161.22963	0.421162	0.002012
145	E	147.91341	0.707447	0.001646	148.12713	0.702750	0.001636	148.33816	0.698104	0.001627
146	V	160.90015	0.436281	0.002032	161.27690	0.427693	0.001995	161.64884	0.419206	0.001956
147	E	148.61926	0.705844	0.001603	148.82828	0.701156	0.001594	149.03468	0.696520	0.001584
148	V	161.33445	0.434306	0.001975	161.70265	0.425756	0.001937	162.06614	0.417306	0.001900
149	E	149.32354	0.704283	0.001561	149.52789	0.699604	0.001552	149.72966	0.694978	0.001542
150	V	161.76684	0.432387	0.001919	162.12653	0.423873	0.001883	162.48161	0.415459	0.001847
151	E	150.02630	0.702764	0.001519	150.22598	0.698094	0.001510	150.42314	0.693477	0.001501
152	V	162.19737	0.430524	0.001863	162.54857	0.422045	0.001828	162.89527	0.413666	0.001793
153	E	150.72759	0.701286	0.001478	150.92261	0.696624	0.001474	151.11515	0.692016	0.001461
154	V	162.62608	0.428715	0.001809	162.96884	0.420270	0.001775	163.30720	0.411926	0.001740
155	E	151.42744	0.699848	0.001438	151.61780	0.695195	0.001429	151.80575	0.690595	0.001421
156	V	163.05304	0.426958	0.001757	163.38739	0.418547	0.001723	163.71743	0.410236	0.001690
157	E	152.12589	0.698450	0.001398	152.31161	0.693805	0.001390	152.49496	0.689214	0.001381
158	V	163.47829	0.425255	0.001703	163.80426	0.416875	0.001672	164.12603	0.408597	0.001639
159	E	152.82298	0.697092	0.001358	153.00406	0.692455	0.001350	153.18284	0.687872	0.001342
160	V	163.90190	0.423602	0.001653	164.21951	0.415254	0.001621	164.53304	0.407008	0.001589
161	E	153.51875	0.695772	0.001320	153.69520	0.691144	0.001311	153.86941	0.686569	0.001503
162	V	164.32390	0.422000	0.001602	164.63320	0.413683	0.001571	164.93851	0.405467	0.001541
163	E	154.21324	0.694491	0.001281	154.38507	0.689870	0.001274	154.55471	0.685304	0.001265
164	V	164.74434	0.420448	0.001552	165.04536	0.412160	0.001523	165.34248	0.403974	0.001493
165	E	154.90649	0.693248	0.001243	155.07371	0.688635	0.001235	155.23879	0.684076	0.001228
166	V	165.16329	0.418944	0.001504	165.45604	0.410685	0.001475	165.74501	0.402528	0.001446
167	E	155.59853	0.692043	0.001205	155.76115	0.687437	0.001198	155.92167	0.682886	0.001190
168	V	165.58078	0.417489	0.001455	165.86530	0.409257	0.001428	166.14613	0.401128	0.001400
169	E	156.28941	0.690875	0.001168	156.44742	0.686276	0.001161	156.60340	0.681732	0.001154
170	V	165.99686	0.416081	0.001408	166.27318	0.407876	0.001381	166.54591	0.399774	0.001354
171	E	156.97915	0.689744	0.001131	157.13257	0.685152	0.001124	157.28402	0.680615	0.001117
172	V	166.41719	0.414719	0.001362	166.67972	0.406541	0.001335	166.94437	0.398465	0.001309
173	E	157.66780	0.688649	0.001095	157.81664	0.684064	0.001088	157.96355	0.679534	0.001081
174	V	166.82498	0.413404	0.001315	167.08497	0.405251	0.001290	167.34157	0.397200	0.001265
175	E	158.35539	0.687590	0.001059	158.49965	0.683011	0.001053	158.64204	0.678489	0.001045
176	V	167.23711	0.412133	0.001271	167.48897	0.404005	0.001246	167.73755	0.395979	0.001221
177	E	159.04196	0.686567	0.001023	159.18164	0.681995	0.001016	159.31952	0.677478	0.001011
178	V	167.64802	0.410908	0.001225	167.89178	0.402803	0.001202	168.13235	0.394800	0.001179
179	E	159.72754	0.685579	0.000988	159.86266	0.681013	0.000982	159.99602	0.676503	0.000975
180	V	168.05775	0.409726	0.001182	168.29342	0.401644	0.001159	168.52602	0.393664	0.001136

ECCENTRICITY M		0.49			0.50			0.51		
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	2ND DIF.
151	E	160.41216	0.684626	160.4272	0.680066	160.67159	0.675562	160.67159	0.675562	0.000941
152	V	168.46634	0.408588	168.49395	0.400528	168.91859	0.392570	168.91859	0.392570	0.001094
153	E	161.09587	0.683708	161.2188	0.679154	161.34624	0.674656	161.34624	0.674656	0.000906
154	V	168.87383	0.407493	169.09340	0.399454	169.31010	0.391517	169.31010	0.391517	0.001053
155	E	161.77870	0.682824	161.90015	0.678275	162.02003	0.673783	162.02003	0.673783	0.000873
156	V	169.28027	0.406440	169.49182	0.398421	169.70061	0.390505	169.70061	0.390505	0.001012
157	E	162.60677	0.681975	162.7758	0.677431	162.99297	0.672944	162.99297	0.672944	0.000839
158	V	169.68570	0.405429	169.88925	0.397430	170.09014	0.389533	170.09014	0.389533	0.000972
159	E	163.14183	0.681159	163.35420	0.676620	163.56511	0.672139	163.56511	0.672139	0.000805
160	V	170.09016	0.404459	170.28573	0.396479	170.47874	0.388601	170.47874	0.388601	0.000932
161	E	163.82221	0.680376	163.93005	0.675842	164.03647	0.671366	164.03647	0.671366	0.000773
162	V	170.49369	0.403531	170.68130	0.395568	170.86645	0.387709	170.86645	0.387709	0.000892
163	E	164.50183	0.679627	164.60514	0.675098	164.70710	0.670627	164.70710	0.670627	0.000739
164	V	170.89633	0.402642	171.07600	0.394697	171.25331	0.386855	171.25331	0.386855	0.000854
165	E	165.18074	0.678911	165.27953	0.674386	165.37702	0.669920	165.37702	0.669920	0.000707
166	V	171.29812	0.401794	171.46986	0.393866	171.63935	0.386040	171.63935	0.386040	0.000815
167	E	165.85897	0.678227	165.95324	0.673707	166.04627	0.669245	166.04627	0.669245	0.000675
168	V	171.69911	0.400986	171.86294	0.393073	172.02461	0.385263	172.02461	0.385263	0.000777
169	E	166.53655	0.677576	166.62630	0.673060	166.71487	0.668603	166.71487	0.668603	0.000642
170	V	172.09933	0.400216	172.25525	0.392319	172.40913	0.384523	172.40913	0.384523	0.000740
171	E	167.21350	0.676958	167.29874	0.672446	167.38286	0.667992	167.38286	0.667992	0.000611
172	V	172.49881	0.399486	172.64686	0.391602	172.79296	0.383821	172.79296	0.383821	0.000702
173	E	167.89888	0.676371	167.97061	0.671863	168.05027	0.667413	168.05027	0.667413	0.000579
174	V	172.89760	0.398794	173.03778	0.390924	173.17611	0.383157	173.17611	0.383157	0.000664
175	E	168.56569	0.675817	168.64192	0.671312	168.71714	0.666866	168.71714	0.666866	0.000547
176	V	173.29575	0.398140	173.42806	0.390283	173.55864	0.382529	173.55864	0.382529	0.000628
177	E	169.24099	0.675294	169.31271	0.670793	169.38349	0.666350	169.38349	0.666350	0.000516
178	V	173.69327	0.397525	173.81175	0.389680	173.94058	0.381937	173.94058	0.381937	0.000592
179	E	169.51579	0.674803	169.58302	0.670305	170.04936	0.665866	170.04936	0.665866	0.000484
180	V	170.59012	0.396947	170.65286	0.389113	170.71477	0.381382	170.71477	0.381382	0.000555
181	E	174.48662	0.396406	174.59544	0.388583	174.70282	0.380862	174.70282	0.380862	0.000454
182	V	171.26405	0.673915	171.32229	0.669423	171.37976	0.664989	171.37976	0.664989	0.000423
183	E	174.88253	0.395903	174.98353	0.388089	175.08320	0.380378	175.08320	0.380378	0.000484
184	V	171.93757	0.673518	171.99132	0.669028	172.04636	0.664597	172.04636	0.664597	0.000392
185	E	175.27796	0.395436	175.37632	0.387632	175.46313	0.379930	175.46313	0.379930	0.000448
186	V	172.61072	0.673152	172.65998	0.668664	172.70859	0.664236	172.70859	0.664236	0.000361
187	E	173.28354	0.395006	173.32831	0.387210	173.37250	0.379517	173.37250	0.379517	0.000413
188	V	176.06758	0.394613	176.12831	0.386825	176.18310	0.379139	176.18310	0.379139	0.000378
189	E	173.95605	0.672512	173.99634	0.668029	174.03610	0.663605	174.03610	0.663605	0.000300
190	V	176.46184	0.394256	176.51317	0.386475	176.56058	0.378796	176.56058	0.378796	0.000343
191	E	174.62829	0.672238	174.66410	0.667757	174.69943	0.663334	174.69943	0.663334	0.000271
192	V	176.85577	0.393935	176.91783	0.386160	176.97907	0.378488	176.97907	0.378488	0.000308
193	E	175.30028	0.671995	175.3161	0.667515	175.36253	0.663095	175.36253	0.663095	0.000239
194	V	177.24942	0.393650	177.30371	0.385881	177.35728	0.378214	177.35728	0.378214	0.000274
195	E	175.97206	0.671783	175.9892	0.667304	176.02541	0.662885	176.02541	0.662885	0.000210
196	V	177.64282	0.393401	177.68935	0.385637	177.73526	0.377975	177.73526	0.377975	0.000239
197	E	176.64366	0.671601	176.66604	0.667123	176.68812	0.662705	176.68812	0.662705	0.000180
198	V	178.03601	0.393188	178.07478	0.385428	178.11303	0.377770	178.11303	0.377770	0.000205
199	E	177.31511	0.671449	177.3301	0.666973	177.35068	0.662556	177.35068	0.662556	0.000149
200	V	178.42902	0.393011	178.46003	0.385254	178.49063	0.377599	178.49063	0.377599	0.000171
201	E	177.98644	0.671328	177.99986	0.666852	178.01311	0.662436	178.01311	0.662436	0.000120
202	V	178.82189	0.392869	178.84514	0.385115	178.86809	0.377463	178.86809	0.377463	0.000136
203	E	178.65768	0.671237	178.66663	0.666762	178.67546	0.662346	178.67546	0.662346	0.000090
204	V	179.21465	0.392762	179.23015	0.385010	179.24545	0.377361	179.24545	0.377361	0.000102
205	E	179.32885	0.671176	179.33333	0.666702	179.33774	0.662287	179.33774	0.662287	0.000059
206	V	179.60735	0.392691	179.61510	0.384491	179.62274	0.377293	179.62274	0.377293	0.000068
207	E	180.00000	0.671146	180.00000	0.666672	180.00000	0.662257	180.00000	0.662257	0.000030
208	V	180.00000	0.392656	180.00000	0.384906	180.00000	0.377259	180.00000	0.377259	0.000034

ECCENTRICITY M		0.52			2ND DIF.			0.53			2ND DIF.			0.54		
		1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.	1ST DIF.	2ND DIF.	3RD DIF.
1	E	2.08284			2.12711			2.12711			2.12711			2.17330		
2	V	3.70555			3.83684			3.83684			3.83684			3.97538		
3	E	4.16270			4.25092			4.25092			4.25092			4.34295		
4	V	7.40053			7.66181			7.66181			7.66181			7.93140		
5	V	11.07459			11.46328			11.46328			11.46328			11.87300		
6	V	14.71777			15.23013			15.23013			15.23013			15.76971		
7	E	18.32070			18.95192			18.95192			18.95192			19.61595		
8	V	22.31049			22.97503			22.97503			22.97503			23.70074		
9	E	26.11400			26.88853			26.88853			26.88853			27.77007		
10	V	30.12105			30.94959			30.94959			30.94959			31.91496		
11	E	34.13011			34.99959			34.99959			34.99959			36.00010		
12	V	38.14086			38.99959			38.99959			38.99959			40.00010		
13	E	42.15088			42.99959			42.99959			42.99959			46.00010		
14	V	46.16088			46.99959			46.99959			46.99959			50.00010		
15	E	50.17088			50.99959			50.99959			50.99959			54.00010		
16	V	54.18088			54.99959			54.99959			54.99959			58.00010		
17	E	58.19088			58.99959			58.99959			58.99959			62.00010		
18	V	62.20088			62.99959			62.99959			62.99959			66.00010		
19	E	66.21088			66.99959			66.99959			66.99959			70.00010		
20	V	70.22088			70.99959			70.99959			70.99959			74.00010		
21	E	74.23088			74.99959			74.99959			74.99959			78.00010		
22	V	78.24088			78.99959			78.99959			78.99959			82.00010		
23	E	82.25088			82.99959			82.99959			82.99959			86.00010		
24	V	86.26088			86.99959			86.99959			86.99959			90.00010		
25	E	90.27088			90.99959			90.99959			90.99959			94.00010		
26	V	94.28088			94.99959			94.99959			94.99959			98.00010		
27	E	98.29088			98.99959			98.99959			98.99959			102.00010		
28	V	102.30088			102.99959			102.99959			102.99959			106.00010		
29	E	106.31088			106.99959			106.99959			106.99959			110.00010		
30	V	110.32088			110.99959			110.99959			110.99959			114.00010		

ECCENTRICITY		$1\sigma^{+2}_{-2}$ DIF.	2ND DIF.	$1\sigma^{+3}_{-3}$ DIF.	2ND DIF.	$1\sigma^{+4}_{-4}$ DIF.	2ND DIF.
31	E	55.57631	1.427086	56.27864	1.428418	56.92663	1.429179
	V	86.32067	0.053731	87.97142	0.053731	89.53595	0.053731
32	E	56.98212	1.405815	57.65116	1.406518	58.33330	1.406669
	V	88.00881	0.051473	89.59044	0.051473	91.20140	0.051473
33	E	58.36726	1.385139	59.07042	1.385266	59.71816	1.384861
	V	89.64765	0.049292	91.27634	0.049292	92.81501	0.049292
34	E	59.73231	1.365050	60.40508	1.364650	61.08190	1.363739
	V	91.23930	0.047193	92.80557	0.047193	94.38056	0.047193
35	E	61.07785	1.345540	61.74973	1.344658	62.44259	1.343387
	V	92.78577	0.045173	94.37887	0.045173	95.89970	0.045173
36	E	62.40445	1.326597	63.07501	1.325276	63.74868	1.323485
	V	94.28901	0.043238	95.87828	0.043238	97.37400	0.043238
37	E	63.71266	1.308209	64.30150	1.306486	65.05259	1.304315
	V	95.75086	0.041384	97.27576	0.041384	98.80550	0.041384
38	E	65.00302	1.290364	65.66977	1.288275	66.33850	1.285758
	V	97.17310	0.039611	98.86136	0.039611	100.19734	0.039611
39	E	66.27607	1.273047	66.97039	1.270624	67.60654	1.267793
	V	98.55743	0.037918	100.07226	0.037918	101.55017	0.037918
40	E	67.53231	1.256244	68.17391	1.253516	68.85694	1.250401
	V	99.90545	0.036303	101.34475	0.036303	102.86613	0.036303
41	E	68.77225	1.239940	69.47085	1.236936	70.09051	1.233563
	V	101.21871	0.034763	102.61221	0.034763	104.14650	0.034763
42	E	69.99637	1.224121	70.67171	1.220865	71.37077	1.217259
	V	102.49867	0.033296	103.94618	0.033296	105.39403	0.033296
43	E	71.20515	1.208772	71.87000	1.205286	72.50924	1.201470
	V	103.74673	0.031898	105.17809	0.031898	106.60901	0.031898
44	E	72.39902	1.193878	73.07718	1.190184	73.69541	1.186177
	V	104.96423	0.030568	106.37933	0.030568	107.79326	0.030568
45	E	73.57845	1.179424	74.27272	1.175541	74.86677	1.171362
	V	106.15242	0.029302	107.54119	0.029302	108.94812	0.029302
46	E	74.74384	1.165396	75.38406	1.161343	76.02378	1.157009
	V	107.31252	0.028096	108.69491	0.028096	110.07484	0.028096
47	E	75.89562	1.151780	76.51164	1.147572	77.16688	1.143098
	V	108.44567	0.026951	109.8167	0.026951	111.17464	0.026951
48	E	77.03419	1.138562	77.65855	1.134214	78.29650	1.129615
	V	109.55296	0.025859	110.90258	0.025859	112.24864	0.025859
49	E	78.15991	1.125729	78.78170	1.121254	79.41304	1.116543
	V	110.63542	0.024821	111.90870	0.024821	113.29793	0.024821
50	E	79.27318	1.113267	79.89578	1.108678	80.51691	1.103867
	V	111.69406	0.023833	113.0105	0.023833	114.32353	0.023833
51	E	80.37435	1.101164	80.9226	1.096473	81.60848	1.091572
	V	112.72980	0.022893	114.01056	0.022893	115.32641	0.022893
52	E	81.46375	1.089408	82.01688	1.084624	82.68812	1.079643
	V	113.74354	0.021999	115.01817	0.021999	116.30748	0.021999
53	E	82.54174	1.077986	83.14000	1.073120	83.75619	1.068068
	V	114.73614	0.021442	116.00472	0.021442	117.26764	0.021442
54	E	83.60863	1.066887	84.21195	1.061947	84.81302	1.056833
	V	115.70840	0.020334	116.96104	0.020334	118.20770	0.020334
55	E	84.66473	1.056100	85.26304	1.051094	85.85895	1.045925
	V	116.66110	0.019561	117.89791	0.019561	119.12845	0.019561
56	E	85.71034	1.045615	86.30359	1.040550	86.89428	1.035332
	V	117.59498	0.018825	118.81608	0.018825	120.03065	0.018825
57	E	86.74576	1.035420	87.33389	1.030303	87.91932	1.025944
	V	118.51073	0.018123	119.71626	0.018123	120.91501	0.018123
58	E	87.77127	1.025505	88.34424	1.020344	88.93437	1.015048
	V	119.40903	0.017452	120.59912	0.017452	121.78220	0.017452
59	E	88.78713	1.015863	89.30490	1.010661	89.93970	1.005334
	V	120.29052	0.016815	120.45330	0.016815	122.63288	0.016815
60	E	89.79361	1.006482	90.30614	1.001246	90.93560	0.009582
	V	121.15580	0.016205	122.31542	0.016205	123.46765	0.016205

ECCENTRICITY		0.52		0.53		0.54	
M		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
61	E	90.79097	0.997354	91.35823	0.992088	91.92231	0.986713
	V	122.00546	0.015623	123.15006	0.015479	124.28710	0.015318
62	E	91.77944	0.008883	92.34141	0.008883	92.90010	0.008908
	V	122.84005	0.015067	123.96977	0.015067	125.09179	0.014760
63	E	92.75926	0.008646	93.31592	0.008646	93.86920	0.008683
	V	123.66010	0.014537	124.77510	0.014537	125.88226	0.014227
64	E	93.73067	0.008418	94.28200	0.008418	94.82986	0.008446
	V	124.46612	0.014030	125.56654	0.014030	126.65901	0.013719
65	E	94.69388	0.008196	95.23986	0.008196	95.78230	0.008220
	V	125.25860	0.013545	126.34459	0.013545	127.42252	0.013235
66	E	95.64911	0.007983	96.18973	0.007983	96.72674	0.007999
	V	126.03800	0.013082	127.10970	0.013082	128.17631	0.012772
67	E	96.59656	0.007776	97.13182	0.007776	97.66339	0.007788
	V	126.80476	0.012638	127.86233	0.012638	128.91167	0.012330
68	E	97.53644	0.007576	98.06632	0.007576	98.59246	0.007582
	V	127.55930	0.012213	128.60288	0.012213	129.63817	0.011907
69	E	98.46893	0.007382	98.99344	0.007382	99.51414	0.007384
	V	128.30204	0.011807	129.33178	0.011807	130.35317	0.011503
70	E	99.39423	0.007195	99.91336	0.007195	100.42863	0.007193
	V	129.03337	0.011417	130.04941	0.011417	131.05705	0.011116
71	E	100.31252	0.007013	100.82627	0.007013	101.33612	0.007008
	V	129.75364	0.011043	130.75614	0.011043	131.75019	0.010746
72	E	101.22396	0.006837	101.73235	0.006837	102.23677	0.006828
	V	130.46324	0.010686	131.45232	0.010686	132.43294	0.010392
73	E	102.12875	0.006667	102.63176	0.006667	103.13077	0.006655
	V	131.16249	0.010343	132.13830	0.010343	133.10563	0.010052
74	E	103.02703	0.006501	103.52467	0.006501	104.01829	0.006486
	V	131.85172	0.010013	132.81441	0.010013	133.76860	0.007727
75	E	103.91697	0.006341	104.41125	0.006341	104.89948	0.006335
	V	132.53126	0.009697	133.48096	0.009697	134.42215	0.009414
76	E	104.80472	0.006186	105.29165	0.006186	105.77452	0.006166
	V	133.20141	0.009393	134.13825	0.009393	135.06659	0.009116
77	E	105.68444	0.006036	106.16603	0.006036	106.64331	0.006014
	V	133.86246	0.009101	134.78658	0.009101	135.70220	0.008828
78	E	106.55827	0.005889	107.03452	0.005889	107.50566	0.005866
	V	134.51468	0.008821	135.42621	0.008821	136.32926	0.008532
79	E	107.42635	0.005747	107.89728	0.005747	108.36408	0.005723
	V	135.15835	0.008552	136.05742	0.008552	136.94803	0.008287
80	E	108.28882	0.005610	108.75445	0.005610	109.21591	0.005583
	V	135.79374	0.008292	136.68047	0.008292	137.55876	0.008033
81	E	109.14582	0.005476	109.60614	0.005476	110.06230	0.005449
	V	136.42107	0.008043	137.29560	0.008043	138.16171	0.007787
82	E	109.99747	0.005346	110.45231	0.005346	110.90338	0.005317
	V	137.04061	0.007802	137.90305	0.007802	138.75711	0.007552
83	E	110.84390	0.005219	111.29367	0.005219	111.73926	0.005190
	V	137.65257	0.007571	138.50305	0.007571	139.34518	0.007326
84	E	111.68523	0.005097	112.12974	0.005097	112.57007	0.005066
	V	138.25719	0.007348	139.09582	0.007348	139.92615	0.004710
85	E	112.52159	0.004978	112.96085	0.004978	113.39594	0.004947
	V	138.85467	0.007134	139.68158	0.007134	140.50022	0.004697
86	E	113.35308	0.004862	113.78712	0.004862	114.21698	0.004850
	V	139.44523	0.006926	140.26052	0.006926	141.06759	0.006695
87	E	114.17983	0.004749	114.60385	0.004749	115.03331	0.004716
	V	140.02906	0.006727	140.83284	0.006727	141.62846	0.006073
88	E	115.00193	0.004640	115.42556	0.004640	115.84502	0.004606
	V	140.60636	0.006534	141.39875	0.006534	142.18902	0.006311
89	E	115.81951	0.004532	116.23795	0.004532	116.65224	0.004499
	V	141.17731	0.006348	141.95841	0.006348	142.73145	0.006131
90	E	116.63265	0.004428	117.04593	0.004428	117.45506	0.004394
	V	141.74208	0.006168	142.51201	0.006168	143.27393	0.005955

ECCENTRICITY M		0.52		0.53		0.54	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
91	E	117.44147	0.808818	0.004327	117.84959	0.803667	118.25360
	V	142.30087	0.558785	0.005995	143.05971	0.547707	143.81062
92	E	118.24606	0.804589	0.004229	118.64905	0.799455	119.04793
	V	142.85383	0.552958	0.005827	143.60169	0.541981	144.36169
93	E	119.04651	0.800457	0.004132	119.44439	0.795339	119.83817
	V	143.40112	0.547292	0.005666	144.13811	0.536415	144.86729
94	E	119.84293	0.796418	0.004039	120.23570	0.791317	120.62441
	V	143.94290	0.541784	0.005508	144.66911	0.531003	145.38758
95	E	120.63540	0.792471	0.003947	121.02309	0.787387	121.40673
	V	144.47933	0.536427	0.005357	145.19485	0.525741	145.90271
96	E	121.42402	0.788613	0.003858	121.80664	0.783545	122.18523
	V	145.01055	0.531216	0.005211	145.71548	0.520624	146.41281
97	E	122.20886	0.784842	0.003771	122.58643	0.779791	122.95999
	V	145.53669	0.526148	0.005068	146.23112	0.515646	146.91803
98	E	122.99002	0.781156	0.003686	123.36255	0.776121	123.73111
	V	146.05791	0.521217	0.004931	146.74193	0.510804	147.41849
99	E	123.76757	0.777552	0.003604	124.13508	0.772534	124.49865
	V	146.57433	0.516419	0.004798	147.24802	0.506094	147.91434
100	E	124.54160	0.774030	0.003522	124.90411	0.769028	125.26270
	V	147.08608	0.511751	0.004668	147.74953	0.501510	148.40568
101	E	125.31218	0.770586	0.003444	125.56971	0.765601	126.02335
	V	147.59329	0.507207	0.004544	148.24658	0.497050	148.89266
102	E	126.07940	0.767219	0.003367	126.33196	0.762251	126.78066
	V	148.09607	0.502785	0.004422	148.73929	0.492710	149.37537
103	E	126.84333	0.763928	0.003291	127.19094	0.758976	127.53471
	V	148.59455	0.498460	0.004305	149.22778	0.488485	149.85394
104	E	127.60404	0.760711	0.003217	127.94671	0.755774	128.28559
	V	149.08884	0.494290	0.004190	149.71215	0.484373	150.32848
105	E	128.36161	0.757565	0.003146	128.69936	0.752645	129.03334
	V	149.57905	0.490211	0.004079	150.19252	0.480370	150.79909
106	E	129.11610	0.754390	0.003075	129.64894	0.749586	129.77806
	V	150.06529	0.486230	0.003972	150.68899	0.476473	151.26588
107	E	129.86758	0.751484	0.003006	130.19554	0.746595	130.51980
	V	150.54766	0.482372	0.003867	151.14167	0.472678	151.72895
108	E	130.61613	0.748545	0.002939	130.93921	0.743672	131.25864
	V	151.02627	0.478606	0.003766	151.61065	0.468984	152.18840
109	E	131.36180	0.745672	0.002873	131.68003	0.740815	132.19946
	V	151.50121	0.474940	0.003666	152.07604	0.465387	152.64432
110	E	132.10466	0.742863	0.002809	132.61805	0.738022	132.72785
	V	151.97258	0.471369	0.003571	152.513792	0.461885	153.09680
111	E	132.84478	0.740118	0.002745	133.15334	0.735292	133.45835
	V	152.44047	0.467892	0.003477	152.96640	0.458474	153.54595
112	E	133.58221	0.737435	0.002683	133.68596	0.732624	134.18621
	V	152.90498	0.464505	0.003387	153.45158	0.455153	153.99183
113	E	134.31703	0.734813	0.002622	134.61598	0.730016	134.91147
	V	153.36618	0.461207	0.003298	153.50347	0.451918	154.43455
114	E	135.04928	0.732250	0.002563	135.34345	0.727468	135.63419
	V	153.82418	0.457996	0.003211	154.35224	0.448769	154.87418
115	E	135.77902	0.729745	0.002505	136.06842	0.724978	136.35444
	V	154.27905	0.454868	0.003128	154.79794	0.445702	155.31081
116	E	136.50632	0.727298	0.002447	136.79097	0.722544	137.07228
	V	154.73087	0.451822	0.003046	155.24065	0.442715	155.74450
117	E	137.23123	0.724907	0.002391	137.51114	0.720167	137.78775
	V	155.11793	0.448856	0.002966	155.68046	0.439807	156.17535
118	E	137.95380	0.722570	0.002337	138.23898	0.717845	138.50091
	V	155.62569	0.445967	0.002889	156.11744	0.436974	156.60342
119	E	138.67408	0.720288	0.002282	138.94456	0.715576	139.21182
	V	156.06885	0.443155	0.002812	156.55165	0.434217	157.02879
120	E	139.39214	0.718059	0.002229	139.65792	0.7113360	139.92053
	V	156.50926	0.440416	0.002739	156.98318	0.431532	157.45153

ECCENTRICITY M		0.52		2ND DIF.	0.53		2ND DIF.	0.54		2ND DIF.
		1ST DIF.			1ST DIF.			1ST DIF.		
121	E	140.10802	0.715882	0.002177	140.36911	0.711196	0.002164	140.62708	0.706556	0.002150
122	V	156.94701	0.437749	0.002667	157.41210	0.428918	0.002614	157.87171	0.420178	0.002561
123	E	140.82178	0.713756	0.002126	141.07820	0.709083	0.002113	141.33154	0.704457	0.002099
124	V	157.38217	0.435153	0.002596	151.83847	0.426373	0.002545	152.28939	0.417684	0.002494
125	E	141.53346	0.711680	0.002076	141.78522	0.707021	0.002062	142.03395	0.702407	0.002050
126	V	157.81479	0.432626	0.002527	158.26237	0.423896	0.002477	158.70465	0.415257	0.002427
127	E	142.24311	0.709654	0.002026	142.49022	0.705007	0.002014	142.73435	0.700406	0.002001
128	V	158.24436	0.430166	0.002460	158.68386	0.4221484	0.002412	159.11755	0.412895	0.002362
129	E	142.95079	0.707676	0.001978	143.19327	0.703041	0.001966	143.43281	0.698454	0.001952
130	V	158.67273	0.427771	0.002395	159.10299	0.419138	0.002346	159.52814	0.410596	0.002299
131	E	143.65654	0.705746	0.001930	143.89439	0.701123	0.001918	144.12935	0.696548	0.001906
132	V	159.09817	0.425441	0.002330	159.51985	0.416854	0.002284	159.93650	0.408359	0.002237
133	E	144.36040	0.703863	0.001883	144.59364	0.699252	0.001871	144.82404	0.694689	0.001859
134	V	159.52134	0.423174	0.002267	159.93448	0.414632	0.002222	160.34269	0.406182	0.002177
135	E	145.06242	0.702026	0.001837	145.29107	0.697427	0.001825	145.51692	0.692876	0.001813
136	V	159.94231	0.420968	0.002206	160.34695	0.412470	0.002162	160.74675	0.404065	0.002117
137	E	145.76266	0.700235	0.001791	145.98572	0.695647	0.001780	146.20803	0.691108	0.001768
138	V	160.36113	0.418822	0.002146	160.75731	0.410367	0.002103	161.14875	0.402005	0.002060
139	E	146.46115	0.698488	0.001747	146.68063	0.693912	0.001735	146.89741	0.689384	0.001724
140	V	160.77787	0.416735	0.002087	161.16564	0.408322	0.002045	161.54876	0.400002	0.002003
141	E	147.15793	0.696785	0.001703	147.37285	0.692220	0.001692	147.58512	0.687704	0.001680
142	V	161.19258	0.414706	0.002029	161.57197	0.406334	0.001988	161.94681	0.398055	0.001947
143	E	147.85306	0.695126	0.001659	148.06342	0.690572	0.001648	148.27118	0.686067	0.001637
144	V	161.60531	0.412734	0.001972	161.97637	0.404401	0.001933	162.34297	0.396162	0.001893
145	E	148.54657	0.693510	0.001616	148.75238	0.688966	0.001606	148.95566	0.684472	0.001595
146	V	162.01612	0.410816	0.001918	162.37889	0.402523	0.001878	162.73730	0.394322	0.001840
147	E	149.23850	0.691936	0.001574	149.43979	0.687402	0.001564	149.63879	0.682918	0.001554
148	V	162.42508	0.408954	0.001862	162.77959	0.400697	0.001826	163.12983	0.392534	0.001788
149	E	149.92891	0.690403	0.001533	150.12567	0.685879	0.001523	150.31998	0.681406	0.001512
150	V	162.83222	0.407144	0.001810	163.17852	0.398924	0.001773	163.52063	0.390797	0.001737
151	E	150.61782	0.688911	0.001492	150.81006	0.684397	0.001482	151.00994	0.679935	0.001471
152	V	163.23761	0.405386	0.001758	163.57572	0.397202	0.001722	163.90974	0.389111	0.001686
153	E	151.30528	0.687460	0.001451	151.49302	0.682956	0.001441	151.67842	0.678503	0.001432
154	V	163.64129	0.403680	0.001706	163.97125	0.395530	0.001672	164.23721	0.387474	0.001637
155	E	151.99133	0.686049	0.001411	152.17457	0.681554	0.001402	152.35553	0.677110	0.001399
156	V	164.04331	0.402024	0.001656	164.36516	0.393908	0.001622	164.68310	0.385885	0.001359
157	E	152.67600	0.684676	0.001373	152.85476	0.680191	0.001363	153.03128	0.675757	0.001353
158	V	164.44373	0.400418	0.001606	164.75749	0.392334	0.001574	165.06744	0.384344	0.001341
159	E	153.35935	0.683343	0.001333	153.53363	0.678867	0.001324	153.70573	0.674442	0.001315
160	V	164.84259	0.398860	0.001558	165.14830	0.390808	0.001526	165.45029	0.382850	0.001494
161	E	154.04140	0.682048	0.001295	154.21121	0.677580	0.001287	154.37889	0.673165	0.001277
162	V	165.23994	0.397350	0.001510	165.53763	0.389329	0.001479	165.83169	0.381401	0.001449
163	E	154.72219	0.680791	0.001257	154.88754	0.676332	0.001248	155.05082	0.671925	0.001240
164	V	165.63583	0.395886	0.001464	165.92552	0.387895	0.001434	166.21169	0.379998	0.001403
165	E	155.40176	0.679572	0.001219	155.56266	0.675121	0.001211	155.72154	0.670722	0.001203
166	V	166.03030	0.394469	0.001417	166.31203	0.386507	0.001388	166.59033	0.378638	0.001360
167	E	156.08015	0.678389	0.001183	156.23661	0.673946	0.001175	156.39109	0.669556	0.001366
168	V	166.42339	0.393098	0.001371	166.69720	0.385164	0.001343	166.96765	0.377323	0.001315
169	E	156.75739	0.677243	0.001146	156.90942	0.672808	0.001138	157.05952	0.668426	0.001300
170	V	166.81516	0.391771	0.001327	167.08106	0.383864	0.001300	167.34370	0.376050	0.001273
171	E	157.43353	0.676134	0.001109	157.58112	0.671706	0.001102	157.72685	0.667331	0.001095
172	V	167.20565	0.390488	0.001283	167.46367	0.382607	0.001257	167.71852	0.374820	0.001230
173	E	158.10858	0.675060	0.001074	158.25176	0.670639	0.001067	158.39312	0.666272	0.001059
174	V	167.59490	0.389248	0.001240	167.84504	0.381393	0.001214	168.09215	0.373631	0.001189
175	E	158.78260	0.674021	0.001039	158.92137	0.669608	0.001031	159.05837	0.665248	0.001024
176	V	167.98295	0.388052	0.001196	168.22528	0.380221	0.001172	168.46463	0.372483	0.001148
177	E	159.45562	0.673018	0.001003	159.58989	0.668611	0.000997	159.72263	0.664259	0.000989
178	V	168.36985	0.386897	0.001155	168.60437	0.379090	0.001131	168.83601	0.371376	0.001107
179	E	160.12767	0.672049	0.000969	160.25763	0.667649	0.000962	160.38593	0.663303	0.000956
180	V	168.75563	0.385784	0.001113	168.98237	0.378000	0.001090	169.20632	0.370308	0.001068

ECCENTRICITY		1st DIF.	2ND DIF.	1st DIF.	2ND DIF.	1st DIF.	2ND DIF.
151	E	160.79879	0.671114	0.000935	160.32435	0.666721	0.000928
152	V	169.14034	0.384712	0.001072	169.35932	0.376949	0.001051
153	V	161.46900	0.670214	0.000900	161.39018	0.665827	0.000894
154	V	169.52402	0.383680	0.001032	169.73526	0.375939	0.001010
155	V	162.13835	0.669347	0.000867	162.25515	0.664966	0.000861
156	V	169.90671	0.382688	0.000992	170.11023	0.374968	0.000971
157	E	162.80686	0.668514	0.000833	162.71928	0.664139	0.000827
158	V	170.28845	0.381736	0.000952	170.84263	0.374035	0.000933
159	E	163.47458	0.667714	0.000800	163.8263	0.663344	0.000795
160	V	170.66927	0.380823	0.000913	170.35740	0.373141	0.000894
161	V	164.14152	0.666947	0.000767	164.74521	0.662583	0.000761
162	V	171.04922	0.379948	0.000875	171.2968	0.372284	0.000857
163	E	164.80773	0.666212	0.000735	164.90705	0.661853	0.000730
164	V	171.42833	0.379112	0.000836	171.01115	0.371465	0.000819
165	E	165.47324	0.665510	0.000702	165.76822	0.661156	0.000697
166	V	171.80665	0.378313	0.000799	171.7183	0.370683	0.000782
167	E	166.13808	0.664840	0.000670	166.72871	0.660491	0.000665
168	V	172.18420	0.377552	0.000761	172.74177	0.369937	0.000746
169	E	166.80228	0.664202	0.000638	166.88857	0.659857	0.000634
170	V	172.56103	0.376828	0.000724	172.71100	0.369228	0.000709
171	E	167.46388	0.663596	0.000606	167.74782	0.659255	0.000602
172	V	172.93717	0.376140	0.000688	173.07955	0.368554	0.000674
173	E	168.12890	0.663021	0.000575	168.70651	0.658684	0.000571
174	V	173.31265	0.375489	0.000651	173.74747	0.367917	0.000637
175	E	168.79138	0.662477	0.000544	168.86465	0.658145	0.000539
176	V	173.68753	0.374873	0.000616	173.81478	0.367314	0.000603
177	E	169.45334	0.661965	0.000512	169.72229	0.657636	0.000509
178	V	174.06182	0.374294	0.000579	174.18153	0.366746	0.000568
179	E	170.11483	0.661484	0.000481	170.77945	0.657158	0.000478
180	V	174.43557	0.373749	0.000545	174.74774	0.366213	0.000533
181	E	170.77586	0.661033	0.000451	170.83616	0.656711	0.000447
182	V	174.80881	0.373241	0.000508	174.81346	0.365715	0.000498
183	E	171.43647	0.660613	0.000420	171.79245	0.656294	0.000417
184	V	175.18158	0.372767	0.000474	175.77871	0.365251	0.000464
185	E	172.09670	0.660224	0.000389	172.714836	0.655907	0.000387
186	V	175.55391	0.372327	0.000440	175.64353	0.364821	0.000430
187	E	172.75656	0.659865	0.000359	172.80391	0.655551	0.000356
188	V	175.92583	0.371923	0.000404	176.00796	0.364425	0.000396
189	E	173.41610	0.659537	0.000328	173.45914	0.655225	0.000326
190	V	176.29738	0.371553	0.000370	176.37202	0.364062	0.000363
191	E	174.07534	0.659238	0.000299	174.11406	0.654929	0.000296
192	V	176.66860	0.371216	0.000337	176.73575	0.363733	0.000329
193	E	174.73431	0.658970	0.000268	174.76873	0.654662	0.000267
194	V	177.03951	0.370914	0.000302	177.09919	0.363437	0.000296
195	E	177.39304	0.658732	0.000238	175.42315	0.654426	0.000236
196	V	177.41016	0.370646	0.000268	177.46236	0.363175	0.000262
197	E	176.05156	0.658524	0.000208	176.07737	0.654219	0.000207
198	V	177.78057	0.370412	0.000234	177.82531	0.362945	0.000230
199	E	176.70991	0.658345	0.000179	176.73141	0.654042	0.000177
200	V	178.15078	0.370211	0.000201	178.18806	0.362749	0.000196
201	E	177.36810	0.658197	0.000148	177.38531	0.653894	0.000148
202	V	178.52083	0.370044	0.000167	178.50664	0.362585	0.000164
203	E	178.02618	0.658078	0.000119	178.03908	0.653777	0.000117
204	V	178.89074	0.369911	0.000133	178.91310	0.362454	0.000131
205	E	179.26055	0.657989	0.000089	178.69277	0.653688	0.000089
206	V	179.34210	0.657929	0.000060	179.34640	0.362356	0.000098
207	E	179.63029	0.657944	0.000067	179.63774	0.362291	0.000065
208	V	180.00000	0.657900	0.000029	180.00000	0.653600	0.000029
209	E	180.00000	0.657910	0.000034	180.00000	0.362258	0.000033

ECCENTRICITY M	0.55 1ST DIF.	2ND DIF.	0.56 1ST DIF.	2ND DIF.	0.57 1ST DIF.	2ND DIF.
1 E	2.22154		2.27197		2.32474	
2 V	4.12175		4.27655		4.44049	
3 E	4.43902		4.53941		4.64442	
4 V	8.22842		8.53608		8.86172	
5 E	6.64844		6.79790		6.95413	
6 V	12.30533		12.76203		13.24500	
7 E	4.076913		9.04318		9.24915	
8 E	8.84599		16.93873		17.57270	
9 V	16.33852		11.27129		11.52509	
10 E	11.02804		21.05177		21.82879	
11 V	20.31506		13.47858		13.77797	
12 E	13.19128		25.08832		25.99908	
13 V	24.22332		15.46178		16.00427	
14 E	15.33268		29.03728		30.07151	
15 V	28.05311		17.81805		18.20091	
16 E	17.44961		32.88942		33.03623	
17 V	31.79584		19.94497		20.36537	
18 E	19.53976		36.63740		37.88560	
19 V	35.44450		22.04033		22.49557	
20 E	21.60121		40.27570		41.61411	
21 V	38.93655		24.10316		25.58992	
22 E	23.63240		43.80032		45.21819	
23 V	42.43938		26.13164		26.64727	
24 E	25.63210		47.20963		48.69604	
25 V	45.77911		28.12513		28.66855	
26 E	27.59941		50.50215		52.04737	
27 V	49.01155		30.08311		30.64824	
28 E	29.53373		1.957978		1.981392	
29 V	3.23435		3.192523		3.351332	
30 E	1.934315		1.957978		1.981392	
31 V	3.124909		3.176262		3.225808	
32 E	1.900964		1.922221		1.943098	
33 V	3.018084		3.061314		3.102326	
34 E	1.867491		1.886465		1.904952	
35 V	3.33473		3.389179		3.449629	
36 E	58.06727		59.68821		61.35723	
37 V	2.912732		2.948485		2.981717	
38 E	1.834092		1.850917		1.867170	
39 V	35.13628		35.74271		36.36346	
40 E	60.87675		62.52663		64.22184	
41 V	36.93721		1.803155		1.829929	
42 E	63.58558		1.815752		1.829929	
43 V	38.70538		65.25821		2.751485	
44 E	66.19673		39.33957		1.793370	
45 V	40.44128		67.88667		2.642644	
46 E	73.47736		1.781112		1.757605	
47 V	45.46164		2.628358		2.538289	
48 E	75.73170		1.747111		1.757605	
49 V	2.254345		1.649731		1.655788	
50 E	47.07504		77.44620		2.252721	
51 V	77.90576		47.75059		1.623816	
52 E	43.81871		72.84909		1.722715	
53 V	48.65972		44.48188		2.438516	
54 E	80.00307		1.584673		1.688763	
55 V	50.21647		49.33972		2.343341	
56 E	82.07113		81.71010		1.655788	
57 V	51.74612		50.89991		1.655788	
58 E	83.98132		83.72686		2.252721	
59 V	53.24948		52.43207		1.623816	
60 E	85.86893		85.67181		1.623816	
61 V	54.72738		87.55371		1.623816	
62 E	87.69312		87.55371		1.623816	
63 V	56.18061		89.36036		1.623816	
64 E	89.45693		56.86937		1.623816	
65 V			91.11061		1.623816	
66 E					1.623816	
67 V					1.623816	
68 E					1.623816	
69 V					1.623816	
70 E					1.623816	
71 V					1.623816	
72 E					1.623816	
73 V					1.623816	
74 E					1.623816	
75 V					1.623816	
76 E					1.623816	
77 V					1.623816	
78 E					1.623816	
79 V					1.623816	
80 E					1.623816	
81 V					1.623816	
82 E					1.623816	
83 V					1.623816	
84 E					1.623816	
85 V					1.623816	
86 E					1.623816	
87 V					1.623816	
88 E					1.623816	
89 V					1.623816	
90 E					1.623816	
91 V					1.623816	
92 E					1.623816	
93 V					1.623816	
94 E					1.623816	
95 V					1.623816	
96 E					1.623816	
97 V					1.623816	
98 E					1.623816	
99 V					1.623816	
100 E					1.623816	

ECCENTRICITY

		$1\sigma^{55}$ DIF.	2ND DIF.	$1\sigma^{56}$ DIF.	2ND DIF.	$1\sigma^{57}$ DIF.	2ND DIF.
31	E	57.60997	1.429360	58.39832	1.428986	58.99133	1.427965
	V	51.16327	1.706338	92.30236	1.691752	94.45219	1.675444
32	E	59.01624	1.406262	59.70362	1.405296	60.39510	1.403768
	V	92.81491	1.651636	94.33855	1.636191	96.07133	1.619144
33	E	60.40016	1.389921	61.38606	1.382446	61.77534	1.380438
	V	94.41448	1.599573	96.72197	1.583415	97.46370	1.565769
34	E	61.76247	1.362316	62.44645	1.360383	63.13348	1.357943
	V	95.96450	1.550018	97.55525	1.533275	99.15225	1.515153
35	E	63.10390	1.341426	63.78553	1.339079	64.46974	1.336252
	V	97.46734	1.502844	99.04087	1.485628	100.61939	1.467135
36	E	64.42513	1.321228	65.10404	1.318510	65.78507	1.315336
	V	98.93527	1.457927	100.88121	1.440336	102.04095	1.421563
37	E	65.72683	1.301700	66.40268	1.298647	67.08023	1.295163
	V	100.34042	1.415148	101.87847	1.397265	103.41924	1.378292
38	E	67.00965	1.282819	67.88215	1.279465	68.35594	1.275704
	V	101.71481	1.374391	103.3477	1.356292	104.75643	1.337186
39	E	68.21421	1.264562	68.94309	1.260938	69.61287	1.256930
	V	103.05036	1.335548	104.52206	1.317296	106.05455	1.298117
40	E	69.52111	1.246907	70.18613	1.243040	70.85168	1.238812
	V	104.34887	1.298515	105.63223	1.280166	107.31551	1.260962
41	E	70.75095	1.229831	71.11187	1.225747	72.07300	1.221323
	V	105.61206	1.263192	107.07702	1.244794	108.54112	1.225609
42	E	71.96426	1.213313	72.62091	1.209035	73.27744	1.204436
	V	106.84155	1.229487	108.28810	1.211080	109.73307	1.191951
43	E	73.16159	1.197331	73.61379	1.192880	74.46556	1.188127
	V	108.03886	1.197310	109.46703	1.1778931	110.89296	1.159888
44	E	74.34345	1.181865	74.59105	1.177260	75.63793	1.172370
	V	109.20544	1.166579	110.61529	1.148258	112.02229	1.129327
45	E	75.51035	1.168896	76.15320	1.162153	76.79508	1.157143
	V	110.34265	1.137214	111.73427	1.118976	113.12247	1.100180
46	E	76.66275	1.152404	77.30074	1.147538	77.93750	1.142422
	V	111.45180	1.109141	112.82528	1.091009	114.19483	1.072366
47	E	77.80112	1.138370	78.43413	1.133396	79.06559	1.128187
	V	112.53409	1.082291	113.89556	1.064283	115.24064	1.045808
48	E	78.92590	1.124776	79.55384	1.119707	80.18010	1.114418
	V	113.59068	1.056597	114.92829	1.038730	116.26108	1.020435
49	E	80.03751	1.111606	80.66029	1.106453	81.28120	1.101093
	V	114.62268	1.031998	115.94257	1.014283	117.25725	0.996179
50	E	81.13635	1.098843	81.75391	1.093616	82.36939	1.088196
	V	115.63112	1.008435	116.93346	0.990885	118.23023	0.972979
51	E	82.22282	1.086471	82.83509	1.081180	83.44510	1.075709
	V	116.61697	0.985854	117.93193	0.968477	119.18101	0.950776
52	E	83.29729	1.074475	83.92422	1.069128	84.50872	1.063613
	V	117.58117	0.964204	118.84894	0.947006	120.11052	0.929515
53	E	84.36013	1.062840	84.93166	1.057446	85.56061	1.051895
	V	118.52461	0.943436	119.77536	0.926423	121.01967	0.909145
54	E	85.41169	1.051553	86.03708	1.046118	86.60115	1.040537
	V	119.44811	0.923504	120.63204	0.906681	121.90929	0.889618
55	E	86.45229	1.040601	87.04291	1.035132	87.63067	1.029526
	V	120.35248	0.904366	121.59978	0.887736	122.78018	0.870859
56	E	87.48226	1.029970	88.06739	1.024473	88.64952	1.018848
	V	121.23846	0.885983	122.43933	0.869547	123.36309	0.852917
57	E	88.50191	1.019649	89.08151	1.014128	89.65801	1.008490
	V	122.10678	0.868315	123.29140	0.852076	124.46876	0.835662
58	E	89.51153	1.009626	90.01560	1.004087	90.65645	0.998438
	V	122.95811	0.851327	124.17669	0.835285	125.28784	0.819087
59	E	90.51142	0.999890	91.07994	0.994337	91.64513	0.988682
	V	123.75309	0.834987	124.91583	0.819141	126.09100	0.803157
60	E	91.50185	0.900430	92.06480	0.984867	92.62434	0.979209
	V	124.61235	0.819262	125.74944	0.803612	126.87884	0.787844

ECCENTRICITY
M

		0.55 1ST DIF.	2ND DIF.	0.56 1ST DIF.	2ND DIF.	0.57 1ST DIF.	2ND DIF.
61	E	92.48309	0.981237	93.04047	0.975666	93.59435	0.970010
	V	125.41648	0.804123	126.53811	0.788668	127.65195	0.773107
62	E	93.45539	0.972300	94.00720	0.966726	94.55542	0.961073
	V	126.20602	0.014581	127.31239	0.774281	128.41087	0.758926
63	E	94.41900	0.963610	94.96523	0.908690	95.50781	0.952389
	V	126.98151	0.014049	128.07281	0.760423	129.15615	0.745273
64	E	95.37416	0.955159	95.91482	0.949587	96.45176	0.943948
	V	127.74346	0.013543	128.81988	0.747069	129.88827	0.732121
65	E	96.32110	0.946938	96.85619	0.941370	97.38750	0.935742
	V	128.49235	0.748890	129.55408	0.734197	130.60771	0.719447
66	E	97.26004	0.938939	97.78957	0.933378	98.31526	0.927761
	V	129.22864	0.736291	130.27586	0.721783	131.31494	0.707228
67	E	98.19119	0.931155	98.71517	0.925602	99.23526	0.919999
	V	129.95278	0.724133	130.98567	0.709806	132.01038	0.695442
68	E	99.11477	0.923577	99.63320	0.918035	100.14771	0.912447
	V	130.66517	0.712395	131.68392	0.698247	132.69446	0.684071
69	E	100.03097	0.916200	100.54387	0.910669	101.05281	0.905097
	V	131.35623	0.701059	132.37100	0.687087	133.36755	0.673096
70	E	100.93998	0.909015	101.44737	0.903498	101.95075	0.897943
	V	132.05634	0.690108	133.04731	0.676308	134.03005	0.662498
71	E	101.84200	0.902018	102.34388	0.896514	102.84173	0.890979
	V	132.73586	0.679523	133.71321	0.665894	134.68231	0.652260
72	E	102.73720	0.895201	103.23360	0.889712	103.72593	0.884196
	V	133.40515	0.669291	134.36903	0.655828	135.32468	0.642368
73	E	103.62576	0.888558	104.11668	0.883086	104.60352	0.877591
	V	134.06455	0.659395	135.01513	0.646096	135.95748	0.632805
74	E	104.50784	0.882085	104.99331	0.876630	105.47467	0.871155
	V	134.71437	0.649822	135.65181	0.636683	136.58104	0.623558
75	E	105.38362	0.875775	105.86365	0.870336	106.33956	0.864885
	V	135.35493	0.640559	136.27939	0.627577	137.19565	0.614614
76	E	106.25324	0.869624	106.72786	0.854206	107.19833	0.858774
	V	135.98652	0.631592	136.89815	0.618763	137.80161	0.605959
77	E	107.11687	0.863625	107.58609	0.858227	108.05115	0.852818
	V	136.60943	0.622909	137.50838	0.610231	138.39920	0.599783
78	E	107.97465	0.857776	108.43848	0.852397	108.89816	0.847011
	V	137.22393	0.614500	138.11035	0.601969	138.98857	0.589472
79	E	108.82672	0.852071	109.28519	0.846712	109.73951	0.841368
	V	137.83028	0.606352	138.70432	0.593966	139.57029	0.581617
80	E	109.67322	0.846505	110.12636	0.841167	110.57533	0.835826
	V	138.42874	0.598457	139.29053	0.586212	140.14429	0.574008
81	E	110.51430	0.841075	110.96212	0.835757	111.40577	0.830440
	V	139.01954	0.590803	139.86923	0.578696	140.71093	0.566634
82	E	111.35007	0.835776	111.79260	0.830480	112.23096	0.825186
	V	139.60292	0.583383	140.44064	0.571411	141.27041	0.559486
83	E	112.18068	0.830605	112.61793	0.825330	113.05102	0.820060
	V	140.17911	0.576186	141.00498	0.564346	141.82257	0.552557
84	E	113.00623	0.825558	113.43823	0.820304	113.86608	0.815058
	V	140.74831	0.569204	141.56248	0.557493	142.33681	0.545836
85	E	113.82686	0.820630	114.25363	0.815399	114.67625	0.810176
	V	141.31074	0.562430	142.11332	0.550845	142.90812	0.539317
86	E	114.64268	0.815820	115.06424	0.810610	115.48166	0.805411
	V	141.86660	0.555856	142.65772	0.544395	143.44111	0.532992
87	E	115.45381	0.811124	115.87018	0.805935	116.28242	0.800760
	V	142.41607	0.549474	143.19585	0.538133	143.96797	0.526853
88	E	116.26035	0.806537	116.67155	0.801370	117.07864	0.796218
	V	142.95935	0.543278	143.72791	0.532055	144.48886	0.520894
89	E	117.06240	0.802058	117.46846	0.796913	117.87043	0.791785
	V	143.49661	0.537261	144.25406	0.526152	145.00397	0.515109
90	E	117.86009	0.797684	118.26102	0.792560	118.65788	0.787455
	V	144.02803	0.531416	144.77448	0.520420	145.51346	0.509491

ECCENTRICITY M		0.55 1ST DIF.	2ND DIF.	0.56 1ST DIF.	2ND DIF.	0.57 1ST DIF.	2ND DIF.
91	E	118.65350	0.793411	0.004273	0.004273	119.04933	0.788309
	V	144.55377	0.525736	0.005678	0.005678	145.08933	0.5114852
92	E	119.44274	0.789237	0.004174	0.004174	119.013348	0.784156
	V	145.07399	0.520221	0.005517	0.005517	145.09877	0.509442
93	E	120.22789	0.785159	0.004078	0.004078	120.011358	0.780100
	V	145.58885	0.514859	0.005362	0.005362	146.02026	0.504185
94	E	121.00907	0.781175	0.003984	0.003984	121.08972	0.776137
	V	146.09849	0.509647	0.005212	0.005212	146.08203	0.499075
95	E	121.78635	0.777282	0.003893	0.003893	122.0199	0.772265
	V	146.60307	0.504580	0.005067	0.005067	147.09614	0.494108
96	E	122.55983	0.773478	0.003804	0.003804	122.093047	0.768482
	V	147.10273	0.499654	0.004926	0.004926	147.08542	0.489280
97	E	123.32959	0.769761	0.003717	0.003717	123.036925	0.764786
	V	147.59759	0.494863	0.004791	0.004791	148.07000	0.484584
98	E	124.09572	0.766129	0.003632	0.003632	124.05643	0.761174
	V	148.08779	0.490204	0.004659	0.004659	148.05002	0.480018
99	E	124.85830	0.762579	0.003550	0.003550	125.01407	0.757645
	V	148.57347	0.485672	0.004532	0.004532	149.02560	0.475577
100	E	125.61741	0.759110	0.003469	0.003469	125.06827	0.754195
	V	149.05473	0.481263	0.004409	0.004409	149.09685	0.471256
101	E	126.37313	0.755719	0.003391	0.003391	126.01909	0.750825
	V	149.53170	0.476973	0.004290	0.004290	150.06391	0.467053
102	E	127.12553	0.752405	0.003314	0.003314	127.06662	0.747530
	V	150.00450	0.472799	0.004174	0.004174	150.06267	0.462964
103	E	127.87470	0.749166	0.003239	0.003239	128.01093	0.744311
	V	150.47324	0.468737	0.004062	0.004062	151.08586	0.458984
104	E	128.62070	0.746000	0.003166	0.003166	128.095210	0.741164
	V	150.93802	0.464784	0.003953	0.003953	151.04097	0.445512
105	E	129.36361	0.742906	0.003094	0.003094	129.069019	0.738089
	V	151.39896	0.460936	0.003848	0.003848	151.09231	0.4451343
106	E	130.10349	0.739882	0.003024	0.003024	130.04257	0.735083
	V	151.85615	0.457190	0.003746	0.003746	152.03998	0.447674
107	E	130.84041	0.736926	0.002956	0.002956	131.05741	0.732145
	V	152.30969	0.453545	0.003645	0.003645	152.08409	0.444103
108	E	131.57445	0.734036	0.002890	0.002890	131.08669	0.729274
	V	152.75969	0.449995	0.003550	0.003550	153.012471	0.440627
109	E	132.30566	0.731212	0.002824	0.002824	132.01316	0.726468
	V	153.20623	0.446539	0.003456	0.003456	153.06196	0.437243
110	E	133.03411	0.728453	0.002739	0.002739	133.03688	0.723726
	V	153.64940	0.443175	0.003364	0.003364	154.09590	0.433948
111	E	133.75987	0.725755	0.002698	0.002698	134.05793	0.721046
	V	154.08930	0.439899	0.003276	0.003276	154.06264	0.430740
112	E	134.48299	0.723120	0.002635	0.002635	134.07636	0.718428
	V	154.52601	0.436710	0.003189	0.003189	155.05426	0.427617
113	E	135.20353	0.720544	0.002576	0.002576	135.09223	0.715869
	V	154.95961	0.433604	0.003106	0.003106	155.07884	0.424576
114	E	135.92156	0.718027	0.002517	0.002517	136.00599	0.713368
	V	155.39019	0.430580	0.003024	0.003024	156.00045	0.421616
115	E	136.63713	0.715567	0.002460	0.002460	136.01652	0.710925
	V	155.81783	0.427635	0.002945	0.002945	156.01919	0.418733
116	E	137.35029	0.713165	0.002402	0.002402	137.02506	0.708539
	V	156.24260	0.424768	0.002867	0.002867	156.03511	0.415926
117	E	138.06111	0.710817	0.002348	0.002348	138.01326	0.706207
	V	156.66457	0.421977	0.002791	0.002791	157.04831	0.413193
118	E	138.76963	0.708524	0.002293	0.002293	139.03519	0.703929
	V	157.08383	0.419259	0.002718	0.002718	157.05884	0.410532
119	E	139.47592	0.706285	0.002239	0.002239	139.03690	0.701705
	V	157.50044	0.416612	0.002647	0.002647	157.06678	0.407942
120	E	140.18002	0.704097	0.002188	0.002188	140.03643	0.699532
	V	157.91448	0.414036	0.002576	0.002576	158.07220	0.405420

ECCENTRICITY M		0.55			0.56			0.57		
		1ST DIF.	2ND DIF.	141.13384	1ST DIF.	2ND DIF.	141.38272	1ST DIF.	2ND DIF.	0.002106
121	E	140.88198	0.701961	0.002136	0.697411	0.002121	0.692906	0.692906	0.002106	0.002106
122	V	158.32601	0.411527	0.002509	0.402964	0.002456	0.394487	0.394487	0.002402	0.002402
123	V	141.58185	0.699876	0.002085	0.695340	0.002071	0.690849	0.690849	0.002057	0.002057
124	V	158.73509	0.409086	0.002441	0.400244	0.002389	0.392149	0.392149	0.002338	0.002338
125	V	142.27969	0.697840	0.002036	0.693318	0.002022	0.688842	0.688842	0.002007	0.002007
126	V	159.14180	0.406709	0.002377	0.398248	0.002327	0.389873	0.389873	0.002276	0.002276
127	E	142.57554	0.695852	0.001988	0.691345	0.001973	0.686883	0.686883	0.001959	0.001959
128	V	159.54620	0.404396	0.002313	0.395984	0.002264	0.387659	0.387659	0.002214	0.002214
129	V	143.66946	0.693913	0.001939	0.689419	0.001926	0.684971	0.684971	0.001912	0.001912
130	V	159.94834	0.402145	0.002251	0.393781	0.002203	0.385504	0.385504	0.002155	0.002155
131	V	144.36148	0.692020	0.001893	0.687540	0.001879	0.683105	0.683105	0.001866	0.001866
132	V	160.34830	0.399954	0.002191	0.391638	0.002143	0.383407	0.383407	0.002097	0.002097
133	V	145.05165	0.690174	0.001846	0.685706	0.001834	0.681285	0.681285	0.001820	0.001820
134	V	160.74612	0.397823	0.002131	0.389552	0.002086	0.381366	0.381366	0.002041	0.002041
135	E	145.74002	0.688374	0.001800	0.683918	0.001788	0.679510	0.679510	0.001775	0.001775
136	V	161.14187	0.395750	0.002073	0.387523	0.002029	0.379382	0.379382	0.001984	0.001984
137	V	146.42664	0.686618	0.001756	0.682175	0.001743	0.677780	0.677780	0.001730	0.001730
138	V	161.53560	0.393733	0.002017	0.385550	0.001973	0.377452	0.377452	0.001930	0.001930
139	E	147.11155	0.684906	0.001712	0.680475	0.001700	0.676092	0.676092	0.001688	0.001688
140	V	162.70525	0.388012	0.001854	0.377952	0.001813	0.371976	0.371976	0.001774	0.001774
141	V	147.99479	0.683237	0.001669	0.678818	0.001657	0.674448	0.674448	0.001644	0.001644
142	V	162.31724	0.389866	0.001906	0.381765	0.001866	0.373750	0.373750	0.001825	0.001825
143	V	148.47640	0.681611	0.001626	0.677204	0.001614	0.672846	0.672846	0.001602	0.001602
144	V	162.70525	0.388012	0.001854	0.377952	0.001813	0.371976	0.371976	0.001774	0.001774
145	V	149.15642	0.680027	0.001584	0.675632	0.001572	0.671285	0.671285	0.001561	0.001561
146	V	163.09146	0.386211	0.001801	0.374814	0.001763	0.370252	0.370252	0.001724	0.001724
147	V	149.83491	0.678485	0.001542	0.674101	0.001531	0.669765	0.669765	0.001520	0.001520
148	V	163.47593	0.384461	0.001750	0.376477	0.001712	0.368578	0.368578	0.001674	0.001674
149	V	150.51189	0.676983	0.001502	0.672610	0.001491	0.668285	0.668285	0.001480	0.001480
150	V	163.85869	0.382761	0.001700	0.374814	0.001663	0.369951	0.369951	0.001627	0.001627
151	V	151.18741	0.675522	0.001461	0.671159	0.001451	0.666845	0.666845	0.001440	0.001440
152	V	164.23980	0.381111	0.001650	0.373198	0.001616	0.365371	0.365371	0.001580	0.001580
153	E	151.86152	0.674100	0.001422	0.669748	0.001411	0.665445	0.665445	0.001400	0.001400
154	V	164.61931	0.379508	0.001603	0.371631	0.001567	0.363838	0.363838	0.001533	0.001533
155	V	152.53423	0.672718	0.001382	0.668376	0.001372	0.664083	0.664083	0.001362	0.001362
156	V	164.99726	0.377953	0.001555	0.370109	0.001522	0.362350	0.362350	0.001488	0.001488
157	V	153.20561	0.671374	0.001344	0.667042	0.001334	0.662759	0.662759	0.001324	0.001324
158	V	165.37371	0.376445	0.001508	0.368633	0.001476	0.360907	0.360907	0.001443	0.001443
159	V	153.87568	0.670068	0.001306	0.665745	0.001297	0.661472	0.661472	0.001287	0.001287
160	V	165.74869	0.374982	0.001463	0.367202	0.001431	0.359507	0.359507	0.001400	0.001400
161	E	154.54448	0.668800	0.001268	0.664487	0.001258	0.660223	0.660223	0.001249	0.001249
162	V	166.12225	0.373564	0.001418	0.365815	0.001387	0.358151	0.358151	0.001356	0.001356
163	V	155.21205	0.667569	0.001231	0.663265	0.001222	0.659011	0.659011	0.001212	0.001212
164	V	166.49444	0.372190	0.001374	0.364471	0.001344	0.356836	0.356836	0.001315	0.001315
165	E	155.87842	0.666375	0.001194	0.662080	0.001185	0.657834	0.657834	0.001177	0.001177
166	V	166.86530	0.370860	0.001330	0.363169	0.001302	0.355564	0.355564	0.001272	0.001272
167	V	156.54364	0.665218	0.001157	0.660930	0.001150	0.656694	0.656694	0.001140	0.001140
168	V	167.23487	0.369572	0.001288	0.361910	0.001259	0.354332	0.354332	0.001232	0.001232
169	E	157.20773	0.664096	0.001122	0.659817	0.001113	0.655589	0.655589	0.001105	0.001105
170	V	167.60320	0.368327	0.001245	0.360691	0.001219	0.353140	0.353140	0.001192	0.001192
171	V	157.87074	0.663009	0.001087	0.658738	0.001079	0.654519	0.654519	0.001070	0.001070
172	V	167.97033	0.367123	0.001204	0.362198	0.001178	0.351988	0.351988	0.001152	0.001152
173	V	158.53270	0.661958	0.001051	0.657695	0.001043	0.653483	0.653483	0.001133	0.001133
174	V	168.33628	0.365959	0.001164	0.655756	0.001138	0.651608	0.651608	0.001113	0.001113
175	V	159.19364	0.660941	0.001017	0.653272	0.001009	0.649591	0.649591	0.001091	0.001091
176	V	168.70112	0.364836	0.001123	0.3657276	0.001099	0.645888	0.645888	0.001074	0.001074
177	E	159.85360	0.659959	0.000982	0.655711	0.000975	0.651514	0.651514	0.000968	0.000968
178	V	169.06487	0.363752	0.001084	0.3656216	0.001060	0.64764	0.64764	0.001037	0.001037
179	V	160.51261	0.659010	0.000949	0.654770	0.000941	0.650580	0.650580	0.000934	0.000934
180	V	169.42758	0.362708	0.001044	0.3655194	0.001022	0.646241	0.646241	0.000999	0.000999

ECCENTRICITY
M

		10 ⁵⁵ DIF.	2ND DIF.	10 ⁵⁶ DIF.	2ND DIF.	10 ⁵⁷ DIF.	2ND DIF.
151	E	161.17071	0.000914	161.22155	0.000914	161.41088	0.000908
	V	169.78928	0.001006	170.03046	0.001006	170.20921	0.000984
152	E	161.82792	0.000881	161.94454	0.000881	162.05969	0.000875
	V	170.15001	0.000968	170.33372	0.000968	170.55509	0.000947
153	E	162.48429	0.000849	162.53669	0.000849	162.70767	0.000842
	V	170.50982	0.000931	170.73607	0.000931	170.90008	0.000910
154	E	163.13984	0.000815	163.24802	0.000815	163.35485	0.000809
	V	170.86873	0.000893	171.03755	0.000893	171.24421	0.000874
155	E	163.79461	0.000783	163.89858	0.000783	164.00125	0.000777
	V	171.22678	0.000857	171.47819	0.000857	171.58752	0.000838
156	E	164.44862	0.000751	164.54840	0.000751	164.64691	0.000745
	V	171.58401	0.000821	171.73803	0.000821	171.93005	0.000803
157	E	165.10192	0.000719	165.13750	0.000719	165.29186	0.000713
	V	171.94046	0.000785	172.13710	0.000785	172.27182	0.000768
158	E	165.75453	0.000687	165.84591	0.000687	165.93614	0.000682
	V	172.29616	0.000749	172.43544	0.000749	172.61288	0.000733
159	E	166.40649	0.000655	166.43368	0.000655	166.57977	0.000651
	V	172.65114	0.000714	172.83070	0.000714	173.03210	0.000698
160	E	167.05782	0.000624	167.14083	0.000624	167.22279	0.000619
	V	173.00345	0.000680	173.15005	0.000680	173.29299	0.000665
161	E	167.70856	0.000594	167.73739	0.000594	167.86523	0.000589
	V	173.35910	0.000645	173.49639	0.000645	173.63210	0.000631
162	E	168.35873	0.000562	168.43339	0.000562	168.50711	0.000558
	V	173.71215	0.000611	173.84214	0.000611	173.97062	0.000598
163	E	169.00838	0.000532	169.07887	0.000532	169.14846	0.000528
	V	174.06462	0.000577	174.18732	0.000577	174.30860	0.000564
164	E	169.65752	0.000501	169.72384	0.000501	169.78933	0.000497
	V	174.41655	0.000544	174.53197	0.000544	174.64605	0.000532
165	E	170.30619	0.000471	170.35835	0.000471	170.42973	0.000467
	V	174.76797	0.000510	174.86122	0.000510	174.98302	0.000499
166	E	170.95443	0.000441	171.01243	0.000441	171.06969	0.000438
	V	175.11891	0.000478	175.21980	0.000478	175.31953	0.000467
167	E	171.60225	0.000410	171.63609	0.000410	171.70925	0.000407
	V	175.46940	0.000444	175.53305	0.000444	175.65561	0.000435
168	E	172.24969	0.000381	172.29938	0.000381	172.34844	0.000378
	V	175.81948	0.000412	175.91589	0.000412	175.99130	0.000394
169	E	172.89677	0.000351	172.94232	0.000351	172.98728	0.000349
	V	176.16919	0.000380	176.24837	0.000380	176.32663	0.000371
170	E	173.54354	0.000322	173.53494	0.000322	173.62580	0.000319
	V	176.51855	0.000347	176.57050	0.000347	176.66162	0.000340
171	E	174.19002	0.000291	174.23726	0.000291	174.26404	0.000289
	V	176.86759	0.000315	176.93233	0.000315	176.99632	0.000308
172	E	174.83623	0.000263	174.89334	0.000263	174.90202	0.000261
	V	177.21634	0.000283	177.27387	0.000283	177.33074	0.000277
173	E	175.48221	0.000233	175.51117	0.000233	175.53977	0.000231
	V	177.56485	0.000252	177.61518	0.000252	177.66492	0.000246
174	E	176.12799	0.000204	176.13281	0.000204	176.17731	0.000202
	V	177.91314	0.000220	177.94626	0.000220	177.99890	0.000215
175	E	177.77359	0.000174	177.79427	0.000174	177.81469	0.000172
	V	178.26123	0.000188	178.27717	0.000188	178.33269	0.000184
176	E	178.41904	0.000145	178.43559	0.000145	178.45193	0.000144
	V	178.60917	0.000157	178.61792	0.000157	178.66633	0.000154
177	E	178.06439	0.000117	178.07679	0.000117	178.08904	0.000116
	V	178.95699	0.000125	178.97855	0.000125	178.99985	0.000122
178	E	178.70964	0.000087	178.71791	0.000087	178.72608	0.000086
	V	179.30471	0.000094	179.31908	0.000094	179.33329	0.000092
179	E	179.35483	0.000058	179.34897	0.000058	179.36305	0.000057
	V	179.65237	0.000062	179.64956	0.000062	179.66666	0.000061
180	E	180.00000	0.000029	180.00000	0.000029	180.00000	0.000029
	V	180.00000	0.000032	180.00000	0.000032	180.00000	0.000031

ECCENTRICITY M		0.58			0.59			0.60		
		1ST DIF.	2ND DIF.		1ST DIF.	2ND DIF.		1ST DIF.	2ND DIF.	
1	E	2.38001		2.43797			2.49881			
	V	4.61434		4.79895			4.99525			
2	E	4.75437	2.374365	4.86962	2.431650		4.99054	2.491726		
	V	9.20684	4.592496	9.57306	4.774117		9.96222	4.966968		
3	E	7.11760	2.363224	7.28881	2.419190	0.012460	7.46830	2.477767	0.013959	
	V	13.75634	4.549504	14.29839	4.725328	0.048789	14.87370	4.911482	0.035486	
4	E	9.46445	2.346856	9.68973	2.400920	0.018270	9.92564	2.457339	0.020428	
	V	18.24305	4.486713	18.95263	4.654239	0.071089	19.70455	4.830847	0.080635	
5	E	11.79010	2.325649	12.06703	2.377308	0.023612	12.35665	2.431010	0.026329	
	V	22.64906	4.406008	23.51579	4.563160	0.091079	24.43245	4.727904	0.102943	
6	E	14.09018	2.300081	14.41596	2.348926	0.028382	14.75612	2.399469	0.031541	
	V	26.95874	4.309676	27.97066	4.454874	0.082866	29.03849	4.606039	0.121865	
7	E	16.36087	2.270589	16.73238	2.316416	0.032510	17.11960	2.363480	0.035989	
	V	31.15899	4.200257	32.30309	4.332432	0.124442	33.50742	4.468927	0.137112	
8	E	18.59892	2.228043	19.01283	2.280451	0.035965	19.44344	2.323836	0.039644	
	V	35.23937	4.080374	36.50206	4.198961	0.133471	37.82770	4.320283	0.148644	
9	E	20.80165	2.202732	21.25453	2.241705	0.038746	21.72476	2.281319	0.042517	
	V	39.19200	3.952633	40.55956	4.057504	0.141457	41.99136	4.163662	0.156621	
10	E	22.96696	2.165309	23.45336	2.200826	0.040879	23.96143	2.236675	0.044644	
	V	43.01148	3.819482	44.47045	3.910886	0.146618	45.99367	4.002309	0.161353	
11	E	25.09327	2.126311	25.61378	2.158418	0.042408	26.15201	2.190582	0.046093	
	V	46.69463	3.683149	48.23207	3.761629	0.149257	49.83274	3.839064	0.163245	
12	E	27.17949	2.086224	27.72880	2.115023	0.043395	28.29566	2.143644	0.046938	
	V	50.22492	3.545592	51.84398	3.611905	0.149724	53.50905	3.676315	0.162749	
13	E	29.22498	2.045484	29.79992	2.071120	0.043903	30.39204	2.096381	0.047263	
	V	53.64869	3.408473	55.30750	3.463518	0.148387	57.02505	3.516000	0.160315	
14	E	31.22945	2.004471	31.82704	2.027118	0.044002	32.44127	2.049232	0.047149	
	V	56.92186	3.273164	58.62541	3.317918	0.145600	60.38468	3.359628	0.156372	
15	E	33.19296	1.963508	33.81040	1.983360	0.043758	34.44383	2.002555	0.046677	
	V	60.06262	3.140758	61.80164	3.176223	0.141695	63.59300	3.208323	0.151305	
16	E	35.111593	1.922868	35.75052	1.940126	0.043234	36.40046	1.956635	0.045920	
	V	63.07471	3.012092	64.84090	3.039263	0.136960	66.85588	3.062875	0.145448	
17	E	36.99860	1.882772	37.64817	1.897641	0.042485	38.31216	1.911696	0.044939	
	V	65.96249	2.887783	67.74851	2.907613	0.131650	69.57967	2.923798	0.139077	
18	E	38.84199	1.843395	39.50424	1.856079	0.041562	40.18006	1.867905	0.043791	
	V	68.73075	2.768257	70.53015	2.781640	0.125973	72.37105	2.791379	0.132419	
19	E	40.64687	1.804878	41.31981	1.815569	0.040510	42.00544	1.825380	0.039780	
	V	71.38453	2.653780	73.19170	2.661544	0.120096	75.03678	2.665726	0.125653	
20	E	42.41419	1.767322	43.09602	1.776207	0.039362	43.78964	1.784202	0.041178	
	V	73.92902	2.544489	75.73908	2.547386	0.114158	77.58359	2.546812	0.118914	
21	E	44.14500	1.730804	44.83408	1.738055	0.038152	45.53407	1.744422	0.039780	
	V	76.36944	2.440420	78.17821	2.439126	0.108260	80.01810	2.434507	0.112305	
22	E	45.84037	1.695373	46.53523	1.701152	0.036903	47.24013	1.706060	0.038362	
	V	78.71096	2.341527	80.51486	2.336647	0.102479	82.34671	2.328608	0.105899	
23	E	47.50143	1.661061	48.20074	1.665516	0.035636	48.50925	1.669122	0.036938	
	V	80.95867	2.247704	82.75463	2.239773	0.096874	84.57557	2.228862	0.099746	
24	E	49.12931	1.627881	49.83189	1.631148	0.034368	50.54284	1.633594	0.035528	
	V	83.11747	2.158803	84.90292	2.148290	0.091483	86.71055	2.134984	0.033878	
25	E	50.72515	1.595835	51.42993	1.598039	0.033109	52.14229	1.599451	0.034143	
	V	85.19211	2.074642	86.96488	2.061959	0.086331	88.75722	2.046669	0.088315	
26	E	52.29006	1.564913	52.99610	1.566166	0.031873	53.70895	1.566660	0.032791	
	V	87.18713	1.995021	88.94540	1.980525	0.081434	90.72083	1.963608	0.083061	
27	E	53.82516	1.535099	54.53160	1.535502	0.030664	55.24413	1.535182	0.031478	
	V	89.10686	1.919726	90.84913	1.903730	0.076795	92.60632	1.885490	0.078118	
28	E	55.33153	1.506369	56.03761	1.506014	0.029488	56.74911	1.504971	0.030211	
	V	90.95540	1.848539	92.68044	1.831310	0.027420	94.41833	1.812009	0.073481	
29	E	56.81022	1.478695	57.51528	1.471664	0.028350	58.22509	1.475982	0.028989	
	V	92.73664	1.781240	94.44345	1.763010	0.068300	96.16120	1.742871	0.069138	
30	E	58.26227	1.452045	58.96569	1.450413	0.027251	97.83899	1.677794	0.027817	
	V	94.45425	1.717611	96.14203	1.698581	0.064629			0.065077	

ECCENTRICITY	M	0.58				0.59				0.60			
		1st DIF.				1st DIF.				1st DIF.			
		2ND DIF.				2ND DIF.				2ND DIF.			
31	E	59.68865	1.426386	0.025659	60.38991	1.424219	0.026194	61.09472	1.421471	0.026694	61.09472	1.421471	0.026694
	V	96.11169	1.657442	0.060169	97.77981	1.637782	0.060799	99.45550	1.616509	0.061285	99.45550	1.616509	0.061285
32	E	61.09034	1.401682	0.024704	61.73895	1.399041	0.025178	62.49057	1.395851	0.025620	62.49057	1.395851	0.025620
	V	97.71222	1.600528	0.056914	99.35020	1.580385	0.057397	101.01427	1.558763	0.057746	101.01427	1.558763	0.057746
33	E	62.46824	1.377899	0.023783	63.13379	1.374837	0.024204	63.86163	1.371258	0.024593	63.86163	1.371258	0.024593
	V	99.25889	1.546673	0.053855	100.88637	1.526172	0.054213	102.51858	1.504317	0.054446	102.51858	1.504317	0.054446
34	E	63.82324	1.355001	0.022898	64.51535	1.351565	0.023272	65.20947	1.347643	0.023615	65.20947	1.347643	0.023615
	V	100.75459	1.495692	0.050981	102.35131	1.474940	0.051232	103.97153	1.452949	0.051368	103.97153	1.452949	0.051368
35	E	65.15619	1.332951	0.022050	65.81453	1.329184	0.022361	66.53444	1.324961	0.022682	66.53444	1.324961	0.022682
	V	102.20199	1.447408	0.048284	103.73781	1.426496	0.048444	105.37598	1.404451	0.048498	105.37598	1.404451	0.048498
36	E	66.46790	1.311714	0.021237	67.13219	1.307655	0.021529	67.83760	1.303168	0.021793	67.83760	1.303168	0.021793
	V	103.60365	1.401654	0.045754	105.15847	1.380659	0.045837	106.73461	1.358628	0.045823	106.73461	1.358628	0.045823
37	E	67.75916	1.291257	0.024657	68.43913	1.286940	0.024715	69.11983	1.282221	0.024947	69.11983	1.282221	0.024947
	V	104.96192	1.358274	0.043380	106.53573	1.337260	0.043399	108.04991	1.315302	0.043326	108.04991	1.315302	0.043326
38	E	69.03070	1.271546	0.019711	69.73613	1.267001	0.019939	70.38191	1.262081	0.020140	70.38191	1.262081	0.020140
	V	106.27904	1.317120	0.041154	107.8187	1.296143	0.041117	109.32421	1.274304	0.040998	109.32421	1.274304	0.040998
39	E	70.28325	1.252547	0.018999	70.95393	1.247802	0.019199	71.62461	1.242707	0.019374	71.62461	1.242707	0.019374
	V	107.55710	1.278055	0.039065	109.03903	1.257160	0.038983	110.55970	1.235480	0.038824	110.55970	1.235480	0.038824
40	E	71.51748	1.234231	0.018316	72.13324	1.229311	0.018491	72.84867	1.224063	0.018644	72.84867	1.224063	0.018644
	V	108.79805	1.240549	0.037106	110.27920	1.220175	0.036985	111.75838	1.198686	0.036794	111.75838	1.198686	0.036794
41	E	72.73405	1.216568	0.017663	73.33474	1.211494	0.017817	74.05479	1.206114	0.017949	74.05479	1.206114	0.017949
	V	110.00373	1.205683	0.035266	111.45426	1.185060	0.035115	112.92217	1.163789	0.034897	112.92217	1.163789	0.034897
42	E	73.93358	1.199527	0.017041	74.53906	1.194320	0.017174	75.24362	1.188826	0.017288	75.24362	1.188826	0.017288
	V	111.17587	1.172143	0.033540	112.61596	1.151699	0.033361	114.05283	1.130665	0.033124	114.05283	1.130665	0.033124
43	E	75.11666	1.183083	0.016444	75.75682	1.177759	0.016561	76.45158	1.172169	0.016657	76.45158	1.172169	0.016657
	V	112.31610	1.140224	0.031919	113.73594	1.119980	0.031719	115.15203	1.099201	0.031464	115.15203	1.099201	0.031464
44	E	76.28387	1.167208	0.015875	76.92860	1.161784	0.015975	77.57189	1.156111	0.016038	77.57189	1.156111	0.016038
	V	113.42592	1.109828	0.030396	114.82475	1.089803	0.030177	116.22133	1.069291	0.029910	116.22133	1.069291	0.029910
45	E	77.43575	1.151877	0.015331	78.07497	1.146367	0.015417	78.71252	1.140625	0.015486	78.71252	1.140625	0.015486
	V	114.50679	1.080865	0.028963	115.83682	1.061071	0.028732	117.26216	1.040836	0.028455	117.26216	1.040836	0.028455
46	E	78.57281	1.137067	0.014810	79.23645	1.131484	0.014883	79.83820	1.125685	0.014940	79.83820	1.125685	0.014940
	V	115.56004	1.053250	0.027615	116.92051	1.033697	0.027374	118.27591	1.013747	0.027089	118.27591	1.013747	0.027089
47	E	79.69557	1.122755	0.014312	80.32356	1.117110	0.014374	80.94947	1.111263	0.014422	80.94947	1.111263	0.014422
	V	116.58694	1.026902	0.026348	117.93811	1.007600	0.026097	119.26385	0.987938	0.025809	119.26385	0.987938	0.025809
48	E	80.80449	1.108919	0.013836	81.42678	1.103222	0.013888	82.054681	1.097338	0.013925	82.054681	1.097338	0.013925
	V	117.58869	1.001748	0.025154	118.91082	0.982702	0.024898	120.22718	0.963333	0.024605	120.22718	0.963333	0.024605
49	E	81.90002	1.095539	0.013380	82.51658	1.089799	0.013423	83.13069	1.083885	0.013453	83.13069	1.083885	0.013453
	V	118.56641	0.977719	0.024029	119.85975	0.958934	0.023768	121.16704	0.939857	0.023476	121.16704	0.939857	0.023476
50	E	82.98262	1.082594	0.012945	83.59340	1.076820	0.012979	84.20158	1.070884	0.013001	84.20158	1.070884	0.013001
	V	119.52116	0.954750	0.022969	120.80598	0.936229	0.022705	122.08448	0.917445	0.022412	122.08448	0.917445	0.022412
51	E	84.05269	1.070067	0.012527	84.61767	1.064266	0.012554	85.25989	1.058314	0.012570	85.25989	1.058314	0.012570
	V	120.45394	0.932782	0.021968	121.73050	0.914525	0.021704	122.98052	0.896034	0.021411	122.98052	0.896034	0.021411
52	E	85.11063	1.057940	0.012127	85.70979	1.052118	0.012148	86.30605	1.046157	0.012157	86.30605	1.046157	0.012157
	V	121.36570	0.911759	0.021023	122.61427	0.893766	0.020759	123.85608	0.875565	0.020469	123.85608	0.875565	0.020469
53	E	86.15682	1.046196	0.011744	86.73015	1.040359	0.011759	87.34044	1.034393	0.011764	87.34044	1.034393	0.011764
	V	122.25733	0.891628	0.020131	123.43817	0.873899	0.019867	124.71206	0.855984	0.019581	124.71206	0.855984	0.019581
54	E	87.19164	1.034819	0.011377	87.77912	1.028972	0.011387	88.36345	1.023006	0.011387	88.36345	1.023006	0.011387
	V	123.12967	0.872340	0.019288	124.34304	0.854874	0.019025	125.54931	0.837242	0.018742	125.54931	0.837242	0.018742
55	E	88.21543	1.023793	0.011026	88.73706	1.017942	0.011030	89.37543	1.011980	0.011026	89.37543	1.011980	0.011026
	V	123.98352	0.853851	0.018489	125.17969	0.836643	0.018231	126.36860	0.819291	0.017951	126.36860	0.819291	0.017951
56	E	89.22854	1.013106	0.010687	89.80431	1.007253	0.010689	90.37672	1.001299	0.010681	90.37672	1.001299	0.010681
	V	124.81963	0.836116	0.017735	125.93885	0.819166	0.017477	127.17069	0.802088	0.017203	127.17069	0.802088	0.017203
57	E	90.23128	1.002742	0.010364	90.80120	0.996892	0.010361	91.36767	0.990949	0.010350	91.36767	0.990949	0.010350
	V	125.63873	0.819096	0.017020	126.80125	0.802399	0.016767	127.95628	0.785592	0.016496	127.95628	0.785592	0.016496
58	E	91.22397	0.992688	0.010054	91.73805	0.986845	0.010047	92.34859	0.980917	0.010032	92.34859	0.980917	0.010032
	V	126.44148	0.802754	0.016342	127.53756	0.786307	0.016092	128.72604	0.769764	0.015828	128.72604	0.769764	0.015828
59	E	92.20690	0.982934	0.009754	92.73515	0.977100	0.009745	93.31978	0.971188	0.009729	93.31978	0.971188	0.009729
	V	127.22854	0.787055	0.015699	128.33841	0.770854	0.015453	129.48061	0.754571	0.015193	129.48061	0.754571	0.015193
60	E	93.18037	0.973466	0.009468	93.73279	0.967644	0.009456	94.28153	0.961751	0.009437	94.28153	0.961751	0.009437
	V	128.00050	0.771966	0.015089	129.11442	0.756006	0.014848	130.22059	0.739977	0.014594	130.22059	0.739977	0.014594

ECCENTRICITY
M

		0.58 1ST DIF.	2ND DIF.	0.59 1ST DIF.	2ND DIF.	0.60 1ST DIF.	2ND DIF.
61	E	94.14464	0.009192	94.69126	0.009178	95.23412	0.009158
	V	128.75796	0.014510	129.85615	0.014273	130.94654	0.014024
62	E	95.09999	0.008927	95.64082	0.008910	96.17783	0.008888
	V	129.50146	0.013960	130.58415	0.013728	131.65901	0.013485
63	E	96.04667	0.008672	96.58172	0.008654	97.11290	0.008630
	V	130.23152	0.013437	131.29895	0.013209	132.35851	0.012972
64	E	96.98491	0.008427	97.51421	0.008400	98.03959	0.008382
	V	130.94864	0.012939	132.00103	0.012717	133.04552	0.012484
65	E	97.91497	0.008190	98.43854	0.008170	98.95814	0.008144
	V	131.65329	0.012466	132.69086	0.012248	133.72051	0.012021
66	E	98.83707	0.007963	99.35492	0.007940	99.86818	0.007913
	V	132.34593	0.012015	133.36889	0.011801	134.38392	0.011581
67	E	99.75142	0.007744	100.26359	0.007721	100.77172	0.007692
	V	133.02698	0.011585	134.02554	0.011377	135.03617	0.011160
68	E	100.65824	0.007532	101.16474	0.007508	101.66719	0.007480
	V	133.69686	0.011175	134.69123	0.010971	135.67766	0.010762
69	E	101.55773	0.007329	102.05860	0.007303	102.55538	0.007274
	V	134.35596	0.010783	135.33632	0.010585	136.30877	0.010380
70	E	102.45009	0.007132	102.94534	0.007106	103.43649	0.007077
	V	135.00464	0.010411	135.97120	0.010217	136.92986	0.010016
71	E	103.33550	0.006942	103.82517	0.006916	104.31072	0.006886
	V	135.64327	0.010054	136.59622	0.009864	137.54128	0.009670
72	E	104.21416	0.006759	104.69827	0.006732	105.17824	0.006701
	V	136.27219	0.009713	137.21171	0.009529	138.14336	0.009339
73	E	105.08623	0.006582	105.56482	0.006555	106.03924	0.006525
	V	136.89172	0.009387	137.81799	0.009207	138.73642	0.009032
74	E	105.95190	0.006411	106.42498	0.006384	106.89389	0.006353
	V	137.50218	0.009076	138.14537	0.008899	139.82307	0.008719
75	E	106.81132	0.006246	107.27892	0.006218	107.74926	0.006187
	V	138.10386	0.008777	139.00414	0.008606	139.89638	0.008431
76	E	107.64665	0.006086	108.12680	0.006057	108.58479	0.006027
	V	138.69704	0.008491	139.58459	0.008324	140.46644	0.008153
77	E	108.51205	0.005931	108.96878	0.005904	109.42135	0.005873
	V	139.28201	0.008218	140.15699	0.008054	141.02431	0.007888
78	E	109.35367	0.005781	109.80501	0.005753	110.25219	0.005722
	V	139.85903	0.007955	140.72159	0.007796	141.57654	0.007634
79	E	110.18965	0.005637	110.63563	0.005608	111.07745	0.005578
	V	140.42834	0.007703	141.27864	0.007548	142.12139	0.007390
80	E	111.02014	0.005496	111.46078	0.005468	111.89727	0.005438
	V	140.99019	0.007461	141.82839	0.007310	142.65908	0.007156
81	E	111.84527	0.005360	112.28060	0.005333	112.71179	0.005302
	V	141.54481	0.007229	142.37105	0.007082	143.18983	0.006933
82	E	112.66516	0.005229	113.09522	0.005200	113.52114	0.005171
	V	142.09242	0.007007	142.90685	0.006863	143.71387	0.006717
83	E	113.47996	0.005100	113.90477	0.005073	114.32545	0.005043
	V	142.63324	0.006792	143.43599	0.006652	144.23141	0.006510
84	E	114.28978	0.004977	114.70936	0.004949	115.12484	0.004919
	V	143.16748	0.006586	143.95869	0.006450	144.74262	0.006312
85	E	115.08475	0.004856	115.50913	0.004829	115.91943	0.004800
	V	143.69533	0.006388	144.47513	0.006255	145.27472	0.006120
86	E	115.89497	0.004739	116.30419	0.004712	116.70933	0.004683
	V	144.21698	0.006198	144.98550	0.006068	145.74688	0.005937
87	E	116.69057	0.004626	117.09465	0.004599	117.49467	0.004571
	V	144.73261	0.006014	145.48998	0.005888	146.24028	0.005760
88	E	117.48166	0.004516	117.88061	0.004489	118.27554	0.004461
	V	145.24241	0.005837	145.98876	0.005714	146.72809	0.005589
89	E	118.26833	0.004409	118.66220	0.004383	119.05206	0.004354
	V	145.74655	0.005667	146.48198	0.005547	147.21048	0.005426
90	E	119.05070	0.004305	119.43951	0.004278	119.82432	0.004252
	V	146.24518	0.005502	146.96982	0.005385	147.68760	0.005267

ECCENTRICITY M		10 ⁵⁸ DIF.				10 ⁵⁹ DIF.				10 ⁶⁰ DIF.			
		2ND DIF.		1ST DIF.		2ND DIF.		1ST DIF.		2ND DIF.		1ST DIF.	
91	E	119.82887	0.778166	0.004204	120.21264	0.773129	0.004178	120.59244	0.768117	0.004150	120.59244	0.768117	0.004150
	V	146.73846	0.493286	0.005344	147.5243	0.482609	0.005230	148.15960	0.472004	0.005115	148.15960	0.472004	0.005115
92	E	120.60293	0.774061	0.004105	120.98168	0.769049	0.004080	121.35650	0.764064	0.004053	121.35650	0.764064	0.004053
	V	147.22656	0.488095	0.005191	147.72996	0.477529	0.005080	148.62664	0.467036	0.004968	148.62664	0.467036	0.004968
93	E	121.37298	0.770051	0.004010	121.74675	0.765065	0.003984	122.11661	0.760106	0.003958	122.11661	0.760106	0.003958
	V	147.70961	0.483051	0.005044	148.0255	0.472594	0.004935	149.08885	0.462210	0.004826	149.08885	0.462210	0.004826
94	E	122.13911	0.766135	0.003916	122.50792	0.761173	0.003892	122.87285	0.756240	0.003866	122.87285	0.756240	0.003866
	V	148.18776	0.478150	0.004901	148.70355	0.467798	0.004796	149.54637	0.457521	0.004689	149.54637	0.457521	0.004689
95	E	122.90142	0.762309	0.003826	123.26530	0.757372	0.003801	123.62532	0.752465	0.003775	123.62532	0.752465	0.003775
	V	148.66114	0.473386	0.004764	149.13349	0.463138	0.004660	149.99933	0.452964	0.004557	149.99933	0.452964	0.004557
96	E	123.66000	0.758571	0.003738	124.01895	0.753659	0.003713	124.37409	0.748777	0.003688	124.37409	0.748777	0.003688
	V	149.12990	0.468756	0.004630	149.79209	0.458608	0.004530	150.44787	0.448555	0.004429	150.44787	0.448555	0.004429
97	E	124.41492	0.754920	0.003651	124.76899	0.750032	0.003627	125.11927	0.745175	0.003602	125.11927	0.745175	0.003602
	V	149.59415	0.464254	0.004502	150.14630	0.454204	0.004404	150.89210	0.444229	0.004306	150.89210	0.444229	0.004306
98	E	125.15627	0.751352	0.003568	125.51547	0.746488	0.003544	125.86092	0.741656	0.003519	125.86092	0.741656	0.003519
	V	150.05403	0.459877	0.004377	150.69622	0.449922	0.004282	151.33214	0.440043	0.004186	151.33214	0.440043	0.004186
99	E	125.91413	0.747867	0.003485	126.25850	0.743026	0.003462	126.59914	0.738217	0.003439	126.59914	0.738217	0.003439
	V	150.50965	0.455620	0.004257	151.14198	0.445758	0.004164	151.76811	0.435973	0.004070	151.76811	0.435973	0.004070
100	E	126.65860	0.744461	0.003406	126.95814	0.739643	0.003383	127.30403	0.734858	0.003359	127.30403	0.734858	0.003359
	V	150.96113	0.451479	0.004141	151.58368	0.441708	0.004050	152.20012	0.432014	0.003959	152.20012	0.432014	0.003959
101	E	127.39973	0.741133	0.003328	127.73448	0.736337	0.003306	128.06557	0.731576	0.003282	128.06557	0.731576	0.003282
	V	151.40858	0.447451	0.004028	152.22145	0.437769	0.003939	152.62859	0.428163	0.003851	152.62859	0.428163	0.003851
102	E	128.13761	0.737881	0.003252	128.46759	0.733107	0.003230	128.79394	0.728369	0.003207	128.79394	0.728369	0.003207
	V	151.85212	0.443533	0.003918	152.45539	0.433936	0.003833	153.05271	0.424418	0.003745	153.05271	0.424418	0.003745
103	E	128.87231	0.734702	0.003179	129.19754	0.729951	0.003156	129.51918	0.725236	0.003133	129.51918	0.725236	0.003133
	V	152.29184	0.439721	0.003812	152.88560	0.430208	0.003728	153.47348	0.420774	0.003644	153.47348	0.420774	0.003644
104	E	129.60391	0.731597	0.003105	129.92440	0.726867	0.003084	130.24135	0.722174	0.003062	130.24135	0.722174	0.003062
	V	152.72785	0.436011	0.003710	153.31218	0.426580	0.003628	153.89071	0.417228	0.003546	153.89071	0.417228	0.003546
105	E	130.33247	0.728562	0.003035	130.64826	0.723853	0.003014	130.96053	0.719182	0.002992	130.96053	0.719182	0.002992
	V	153.16025	0.432401	0.003610	153.73523	0.423050	0.003530	154.30449	0.413778	0.003450	154.30449	0.413778	0.003450
106	E	131.05806	0.725596	0.002966	131.36917	0.720908	0.002945	131.67619	0.716258	0.002924	131.67619	0.716258	0.002924
	V	153.58913	0.428887	0.003514	154.15484	0.419615	0.003435	154.71491	0.410421	0.003357	154.71491	0.410421	0.003357
107	E	131.78076	0.722697	0.002899	132.08719	0.718030	0.002878	132.39019	0.713401	0.002857	132.39019	0.713401	0.002857
	V	154.01460	0.425467	0.003420	154.57111	0.416271	0.003344	155.12206	0.407153	0.003268	155.12206	0.407153	0.003268
108	E	132.50063	0.719864	0.002833	132.80241	0.715217	0.002813	133.10080	0.710609	0.002792	133.10080	0.710609	0.002792
	V	154.43674	0.422139	0.003328	154.98413	0.413016	0.003255	155.52604	0.403973	0.003180	155.52604	0.403973	0.003180
109	E	133.21772	0.717096	0.002768	133.51488	0.712469	0.002748	133.80868	0.707881	0.002728	133.80868	0.707881	0.002728
	V	154.85564	0.418898	0.003241	155.33938	0.409848	0.003168	155.92691	0.400877	0.003096	155.92691	0.400877	0.003096
110	E	133.93211	0.713591	0.002705	134.22466	0.709794	0.002685	134.51390	0.705216	0.002665	134.51390	0.705216	0.002665
	V	155.27138	0.415744	0.003154	155.83074	0.406764	0.003084	156.32478	0.397864	0.003013	156.32478	0.397864	0.003013
111	E	134.64386	0.711748	0.002643	134.93182	0.707160	0.002624	135.21651	0.702611	0.002605	135.21651	0.702611	0.002605
	V	155.68406	0.412673	0.003071	156.20450	0.403762	0.003002	156.71971	0.394931	0.002933	156.71971	0.394931	0.002933
112	E	135.35303	0.709165	0.002583	135.63642	0.704596	0.002564	135.91658	0.700066	0.002545	135.91658	0.700066	0.002545
	V	156.09374	0.409684	0.002989	156.69534	0.400840	0.002922	157.11178	0.392075	0.002856	157.11178	0.392075	0.002856
113	E	136.05967	0.706642	0.002523	136.33851	0.702090	0.002506	136.61416	0.697580	0.002486	136.61416	0.697580	0.002486
	V	156.50051	0.406773	0.002911	157.00334	0.397994	0.002846	157.50108	0.389295	0.002780	157.50108	0.389295	0.002780
114	E	136.73285	0.704176	0.002466	137.03815	0.699643	0.002447	137.30931	0.695151	0.002429	137.30931	0.695151	0.002429
	V	156.90445	0.403940	0.002833	157.33856	0.395224	0.002770	157.88766	0.386588	0.002707	157.88766	0.386588	0.002707
115	E	137.46561	0.701767	0.002409	137.73540	0.697252	0.002391	138.00209	0.692778	0.002373	138.00209	0.692778	0.002373
	V	157.30563	0.401181	0.002759	157.79109	0.392527	0.002697	158.27162	0.383954	0.002634	158.27162	0.383954	0.002634
116	E	138.16503	0.698495	0.002353	138.41032	0.694916	0.002336	138.69255	0.690460	0.002318	138.69255	0.690460	0.002318
	V	157.70413	0.398715	0.002289	158.11099	0.389902	0.002262	158.38074	0.385301	0.002244	158.38074	0.385301	0.002244
117	E	138.86214	0.697115	0.002266	139.12995	0.692634	0.002252	139.39504	0.688196	0.002236	139.39504	0.688196	0.002236
	V	158.10001	0.395879	0.002216	158.56834	0.387346	0.002256	159.03190	0.378891	0.002249	159.03190	0.378891	0.002249
118	E	139.55701	0.694870	0.002245	139.8336	0.690406	0.002228	140.06673	0.685984	0.002212	140.06673	0.685984	0.002212
	V	158.49334	0.393333	0.002546	158.91320	0.384857	0.002489	159.40836	0.376460	0.002431	159.40836	0.376460	0.002431
119	E	140.24969	0.692677	0.002193	140.50159	0.688229	0.002177	140.75055	0.683825	0.002159	140.75055	0.683825	0.002159
	V	158.88420	0.390855	0.002478	159.3563	0.382435	0.002422	159.78245	0.374093	0.002367	159.78245	0.374093	0.002367
120	E	140.94023	0.690536	0.002141	141.16769	0.686104	0.002125	141.43227	0.681716	0.002109	141.43227	0.681716	0.002109
	V	159.27264	0.388442	0.002413	159.71571	0.380076	0.002359	160.15424	0.371790	0.002303	160.15424	0.371790	0.002303

ECCENTRICITY M		0.58		2ND DIF.		0.59		2ND DIF.		0.60		2ND DIF.	
		1ST DIF.	0.002091	141.87172	0.684029	0.002075	142.11192	0.679657	0.002059	1ST DIF.	0.679657	0.002059	
121	E	141.62867	0.688445	141.87172	0.684029	0.002075	142.11192	0.679657	0.002059				
122	V	159.65873	0.386093	160.09349	0.377781	0.002295	160.52379	0.369547	0.002243				
123	V	142.31507	0.686404	142.55373	0.682003	0.002026	142.78957	0.677647	0.002010				
124	V	160.04254	0.383807	160.46903	0.375546	0.002235	160.89115	0.367364	0.002183				
125	E	142.99949	0.684411	143.23375	0.680026	0.001977	143.46526	0.675685	0.001962				
126	E	160.42412	0.381582	160.84241	0.373372	0.002174	161.25639	0.365240	0.002124				
127	E	143.68195	0.682467	143.91185	0.678096	0.001930	144.13902	0.673770	0.001915				
128	V	160.80354	0.379416	161.21366	0.371255	0.002117	161.61956	0.363173	0.002067				
129	E	144.36252	0.680569	144.58806	0.676212	0.001884	144.81093	0.671901	0.001869				
130	V	161.18085	0.377309	161.58286	0.369196	0.002059	161.98073	0.361161	0.002012				
131	V	145.04124	0.678717	145.26243	0.674375	0.001837	145.48100	0.670078	0.001823				
132	V	161.55610	0.375259	161.95005	0.367192	0.002004	162.33993	0.359204	0.001957				
133	E	145.71815	0.676911	145.93502	0.672382	0.001793	146.14930	0.668300	0.001778				
134	V	161.92937	0.373264	162.31529	0.365243	0.001949	162.69723	0.357300	0.001904				
135	E	146.39330	0.675149	146.60595	0.670834	0.001748	146.81587	0.666565	0.001735				
136	V	162.30069	0.371134	162.67864	0.363347	0.001896	163.05268	0.355448	0.001852				
137	E	147.06673	0.673431	147.27498	0.669130	0.001704	147.48074	0.664874	0.001691				
138	V	162.67013	0.369437	163.04014	0.361503	0.001844	163.40832	0.353646	0.001802				
139	E	147.73849	0.671757	147.94245	0.667468	0.001662	148.14397	0.663326	0.001648				
140	V	163.03773	0.367602	163.39985	0.359709	0.001794	163.75822	0.351895	0.001751				
141	V	148.40861	0.670125	148.60830	0.665849	0.001619	148.80559	0.661619	0.001607				
142	E	163.40355	0.365818	163.75782	0.357966	0.001743	164.10841	0.350192	0.001703				
143	V	149.07715	0.668535	149.27257	0.664271	0.001578	149.46564	0.660054	0.001565				
144	E	163.76763	0.364084	164.11409	0.356272	0.001694	164.45695	0.348537	0.001655				
145	V	149.74413	0.666986	149.93530	0.662734	0.001537	150.12417	0.658529	0.001525				
146	E	164.13003	0.362399	164.46871	0.354825	0.001647	164.80388	0.349229	0.001608				
147	V	150.40961	0.665477	150.59654	0.661238	0.001496	150.78122	0.657045	0.001484				
148	E	164.49079	0.360761	164.82174	0.353025	0.001600	165.14924	0.345366	0.001563				
149	V	151.07362	0.664009	151.25632	0.659781	0.001457	151.43682	0.655600	0.001445				
150	E	164.84996	0.359171	165.17321	0.351471	0.001554	165.49309	0.343849	0.001517				
151	V	151.73620	0.662580	151.91468	0.658363	0.001418	152.09101	0.654193	0.001407				
152	E	165.20759	0.357627	165.52317	0.349963	0.001508	165.83547	0.342375	0.001474				
153	V	152.39739	0.661190	152.57167	0.656984	0.001379	152.74384	0.652825	0.001368				
154	E	165.56372	0.356128	165.87167	0.348498	0.001465	166.17641	0.340945	0.001430				
155	V	153.05723	0.659839	153.22731	0.655543	0.001341	153.39533	0.651495	0.001330				
156	E	165.91839	0.354674	166.21875	0.347077	0.001421	166.51597	0.339557	0.001388				
157	V	153.71575	0.658525	153.88165	0.654340	0.001303	154.04553	0.650202	0.001293				
158	E	166.27166	0.353263	166.56444	0.345698	0.001379	166.85418	0.338210	0.001347				
159	V	154.37300	0.657249	154.53472	0.653073	0.001267	154.69448	0.648946	0.001256				
160	E	166.62355	0.351895	166.90891	0.344361	0.001337	167.19108	0.336905	0.001305				
161	V	155.02901	0.656009	155.18657	0.651843	0.001230	155.34220	0.647726	0.001220				
162	E	166.97412	0.350569	167.25187	0.343066	0.001295	167.52672	0.335639	0.001266				
163	V	155.68382	0.654806	155.83722	0.650650	0.001193	155.98874	0.646542	0.001184				
164	E	167.32340	0.349284	167.59368	0.341810	0.001256	167.86114	0.334413	0.001226				
165	V	156.33745	0.653639	156.48671	0.649492	0.001158	156.63414	0.645393	0.001149				
166	E	167.67144	0.348040	167.93428	0.340595	0.001215	168.19436	0.333226	0.001187				
167	V	156.98996	0.652507	157.13508	0.648369	0.001123	157.27842	0.644280	0.001113				
168	E	168.01828	0.346836	168.27369	0.339418	0.001177	168.52644	0.332077	0.001149				
169	V	157.64137	0.651410	157.78236	0.647281	0.001088	157.92162	0.643201	0.001079				
170	E	168.36395	0.345671	168.61197	0.338280	0.001138	168.85740	0.330966	0.001111				
171	V	158.29172	0.650349	158.42859	0.646228	0.001053	158.56377	0.642156	0.001045				
172	E	168.70849	0.344545	168.94916	0.337180	0.001100	169.18730	0.329891	0.001075				
173	V	158.94104	0.649321	159.07360	0.6455209	0.001019	159.20492	0.641145	0.001011				
174	E	169.05195	0.343457	169.18257	0.336117	0.001063	169.51615	0.328853	0.001038				
175	V	159.58937	0.648328	159.71802	0.644223	0.000986	159.84509	0.640167	0.000978				
176	E	169.39436	0.342407	169.62036	0.335091	0.001026	169.84400	0.327851	0.001002				
177	V	160.23674	0.647368	160.36129	0.6433271	0.000952	160.48431	0.639223	0.000944				
178	E	169.73575	0.341394	169.85447	0.334101	0.000990	170.17089	0.632685	0.000966				
179	V	160.88318	0.646441	161.00364	0.642352	0.000919	161.12262	0.638311	0.000912				
180	E	170.07617	0.340417	170.28761	0.333147	0.000954	170.49684	0.325953	0.000932				

ECCENTRICITY M		1st DIF.			2ND DIF.			1st DIF.			2ND DIF.			1st DIF.			2ND DIF.		
		0.58	1st	DIF.	0.58	1st	DIF.	0.59	1st	DIF.	0.59	1st	DIF.	0.60	1st	DIF.	0.60	1st	DIF.
151	E	161.52872	0.645547	0.000894	161.64511	0.644165	0.000887	161.76005	0.641465	0.000887	161.76005	0.641465	0.000887	0.637431	0.000880	0.000880	0.637431	0.000880	0.000880
152	V	170.41564	0.339476	0.000941	170.61984	0.332228	0.000919	170.82189	0.332228	0.000919	170.82189	0.332228	0.000919	0.325055	0.000898	0.000898	0.325055	0.000898	0.000898
153	V	170.75422	0.338571	0.000905	170.91119	0.331344	0.000884	171.14608	0.331344	0.000884	171.14608	0.331344	0.000884	0.324192	0.000863	0.000863	0.324192	0.000863	0.000863
154	E	163.46033	0.643061	0.000796	163.56450	0.638998	0.000791	163.66739	0.638998	0.000791	163.66739	0.638998	0.000791	0.633362	0.000815	0.000815	0.633362	0.000815	0.000815
155	E	164.10262	0.336866	0.000835	171.6136	0.329678	0.000816	171.79201	0.329678	0.000816	171.79201	0.329678	0.000816	0.322565	0.000784	0.000784	0.322565	0.000784	0.000784
156	E	164.74419	0.336065	0.000801	171.94025	0.328895	0.000783	172.11381	0.328895	0.000783	172.11381	0.328895	0.000783	0.324232	0.000753	0.000753	0.324232	0.000753	0.000753
157	V	172.10015	0.335298	0.000767	172.20840	0.328146	0.000749	172.43488	0.328146	0.000749	172.43488	0.328146	0.000749	0.321069	0.000732	0.000732	0.321069	0.000732	0.000732
158	E	166.02524	0.640860	0.000702	165.47707	0.636815	0.000697	165.56795	0.636815	0.000697	165.56795	0.636815	0.000697	0.632820	0.000691	0.000691	0.632820	0.000691	0.000691
159	E	166.66479	0.33864	0.000671	166.11322	0.636149	0.000666	166.20011	0.636149	0.000666	166.20011	0.636149	0.000666	0.320369	0.000700	0.000700	0.320369	0.000700	0.000700
160	E	167.30372	0.338939	0.000668	173.21866	0.326093	0.000652	173.39401	0.326093	0.000652	173.39401	0.326093	0.000652	0.631529	0.000669	0.000669	0.631529	0.000669	0.000669
161	E	167.94208	0.338359	0.000635	173.57414	0.325472	0.000621	173.71247	0.325472	0.000621	173.71247	0.325472	0.000621	0.630929	0.000637	0.000637	0.630929	0.000637	0.000637
162	V	173.76629	0.331958	0.000580	168.01798	0.634334	0.000575	168.09239	0.634334	0.000575	168.09239	0.634334	0.000575	0.630359	0.000606	0.000606	0.630359	0.000606	0.000606
163	E	169.21718	0.337290	0.000520	173.89902	0.324883	0.000515	174.03035	0.324883	0.000515	174.03035	0.324883	0.000515	0.629308	0.000570	0.000570	0.629308	0.000570	0.000570
164	E	169.85398	0.336801	0.000489	169.91783	0.632788	0.000486	169.98088	0.632788	0.000486	169.98088	0.632788	0.000486	0.629819	0.000545	0.000545	0.629819	0.000545	0.000545
165	E	170.49032	0.336341	0.000460	170.5016	0.632332	0.000456	170.60925	0.632332	0.000456	170.60925	0.632332	0.000456	0.629337	0.000545	0.000545	0.629337	0.000545	0.000545
166	E	175.08872	0.329862	0.000477	175.19328	0.322835	0.000466	175.29673	0.322835	0.000466	175.29673	0.322835	0.000466	0.628373	0.000453	0.000453	0.628373	0.000453	0.000453
167	E	175.41814	0.329416	0.000446	171.13207	0.631905	0.000427	171.23721	0.631905	0.000427	171.23721	0.631905	0.000427	0.627950	0.000423	0.000423	0.627950	0.000423	0.000423
168	E	175.76174	0.329000	0.000416	171.81357	0.631507	0.000398	171.86476	0.631507	0.000398	171.86476	0.631507	0.000398	0.627555	0.000395	0.000395	0.627555	0.000395	0.000395
169	E	176.07576	0.328615	0.000385	176.15929	0.630798	0.000377	176.24194	0.630798	0.000377	176.24194	0.630798	0.000377	0.627189	0.000397	0.000397	0.627189	0.000397	0.000397
170	E	176.40402	0.328261	0.000354	176.48036	0.630487	0.000346	176.58630	0.630487	0.000346	176.58630	0.630487	0.000346	0.626852	0.000337	0.000337	0.626852	0.000337	0.000337
171	E	176.73195	0.327936	0.000325	176.80152	0.630204	0.000317	176.87034	0.630204	0.000317	176.87034	0.630204	0.000317	0.626543	0.000309	0.000309	0.626543	0.000309	0.000309
172	E	177.05960	0.327641	0.000295	177.12218	0.630666	0.000288	177.18411	0.630666	0.000288	177.18411	0.630666	0.000288	0.626263	0.000280	0.000280	0.626263	0.000280	0.000280
173	E	177.38697	0.327377	0.000264	177.44259	0.629950	0.000254	177.49762	0.629950	0.000254	177.49762	0.629950	0.000254	0.626011	0.000252	0.000252	0.626011	0.000252	0.000252
174	E	177.71411	0.327142	0.000235	177.76277	0.629724	0.000226	177.81091	0.629724	0.000226	177.81091	0.629724	0.000226	0.625844	0.000224	0.000224	0.625844	0.000224	0.000224
175	E	178.04105	0.326936	0.000199	178.08274	0.629527	0.000197	178.12400	0.629527	0.000197	178.12400	0.629527	0.000197	0.625591	0.000196	0.000196	0.625591	0.000196	0.000196
176	E	178.36781	0.326760	0.000176	178.40255	0.629358	0.000169	178.43692	0.629358	0.000169	178.43692	0.629358	0.000169	0.625423	0.000168	0.000168	0.625423	0.000168	0.000168
177	E	178.69442	0.326614	0.000146	178.72221	0.62917	0.000141	177.49970	0.62917	0.000141	177.49970	0.62917	0.000141	0.625284	0.000139	0.000139	0.625284	0.000139	0.000139
178	E	179.02092	0.326497	0.000117	179.0548	0.629020	0.000114	179.06238	0.629020	0.000114	179.06238	0.629020	0.000114	0.625172	0.000112	0.000112	0.625172	0.000112	0.000112
179	E	179.34733	0.326409	0.000088	179.37496	0.628862	0.000084	179.37496	0.628862	0.000084	179.37496	0.628862	0.000084	0.625088	0.000084	0.000084	0.625088	0.000084	0.000084
180	E	180.00000	0.326351	0.000058	179.67368	0.628936	0.000056	179.68750	0.628936	0.000056	179.68750	0.628936	0.000056	0.625033	0.000055	0.000055	0.625033	0.000055	0.000055
					180.00000	0.628936	0.000028	180.00000	0.628936	0.000028	180.00000	0.628936	0.000028	0.625005	0.000028	0.000028	0.625005	0.000028	0.000028
														0.312505	0.000028	0.000028	0.312505	0.000028	0.000028

ECCENTRICITY M		0.61		0.62		0.63	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
1	E	2.56277				2.70100	
2	V	5.20431				5.66557	
3	E	5.11757				5.39186	
4	V	10.37633				11.28871	
5	E	7.65669				8.06284	
6	V	15.48510				16.82908	
7	E	10.17294				10.70495	
8	V	20.50324				22.25036	
9	E	12.65979				13.31022	
10	V	25.40283				27.52155	
11	E	15.11154				15.87190	
12	V	30.16612				32.61785	
13	E	17.52342				18.38452	
14	V	34.77577				37.52090	
15	E	19.89158				20.84393	
16	V	39.21984				42.21847	
17	E	24.11880				23.24717	
18	V	46.09648				46.70396	
19	E	2.368162				25.59239	
20	V	4.44073				50.97550	
21	E	4.44073				27.87869	
22	V	4.270713				55.03510	
23	E	0.048742				30.10594	
24	V	0.173360				58.88775	
25	E	0.048742				62.54063	
26	V	0.048742				3.652877	
27	E	0.048742				2.11245	
28	V	0.048742				3.461770	
29	E	0.048742				66.00240	
30	V	0.048742				36.44107	
31	E	0.048742				69.28265	
32	V	0.048742				38.44179	
33	E	0.048742				72.39144	
34	V	0.048742				40.38992	
35	E	0.048742				75.33896	
36	V	0.048742				42.28743	
37	E	0.048742				78.13529	
38	V	0.048742				44.13634	
39	E	0.048742				80.79021	
40	V	0.048742				45.93869	
41	E	0.048742				83.31307	
42	V	0.048742				47.69649	
43	E	0.048742				85.71276	
44	V	0.048742				49.41172	
45	E	0.048742				87.99764	
46	V	0.048742				51.08632	
47	E	0.048742				90.17552	
48	V	0.048742				52.72213	
49	E	0.048742				92.25369	
50	V	0.048742				54.32094	
51	E	0.048742				94.23891	
52	V	0.048742				55.88446	
53	E	0.048742				96.13744	
54	V	0.048742				57.41430	
55	E	0.048742				97.95507	
56	V	0.048742				58.91202	
57	E	0.048742				99.69716	
58	V	0.048742				60.37907	
59	E	0.048742				101.36863	
60	V	0.048742				61.81684	
61	E	0.048742				102.97406	
62	V	0.048742					
63	E	0.048742					
64	V	0.048742					
65	E	0.048742					
66	V	0.048742					
67	E	0.048742					
68	V	0.048742					
69	E	0.048742					
70	V	0.048742					
71	E	0.048742					
72	V	0.048742					
73	E	0.048742					
74	V	0.048742					
75	E	0.048742					
76	V	0.048742					
77	E	0.048742					
78	V	0.048742					
79	E	0.048742					
80	V	0.048742					
81	E	0.048742					
82	V	0.048742					
83	E	0.048742					
84	V	0.048742					
85	E	0.048742					
86	V	0.048742					
87	E	0.048742					
88	V	0.048742					
89	E	0.048742					
90	V	0.048742					
91	E	0.048742					
92	V	0.048742					
93	E	0.048742					
94	V	0.048742					
95	E	0.048742					
96	V	0.048742					
97	E	0.048742					
98	V	0.048742					
99	E	0.048742					
100	V	0.048742					

ECCENTRICITY M		1st ⁶ Dif.		2ND DIF.		1st ⁶ Dif.		2ND DIF.		1st ⁶ Dif.		2ND DIF.	
		31	E	61.80271	1.418146	0.027157	62.51349	1.414254	0.027582	63.22665	1.409805	0.027967	64.00033
31	V	101.13771	1.593675	0.061624	102.82542	1.569341	102.82542	1.569341	0.061813	104.51763	1.543571	0.061851	106.26726
32	E	63.19483	1.392120	0.026026	63.90134	1.387859	63.90134	1.387859	0.026395	64.60973	1.383079	0.026726	65.30793
33	V	102.67343	1.535716	0.057959	104.33673	1.511306	104.33673	1.511306	0.058035	106.00323	1.485598	0.057973	107.72520
34	E	64.56200	1.367171	0.024949	65.26393	1.362259	65.26393	1.362259	0.025270	66.96725	1.357525	0.025554	68.72520
35	V	104.15459	1.481163	0.054553	105.75350	1.456771	105.75350	1.456771	0.054535	107.43443	1.431207	0.054391	109.10726
36	E	65.90525	1.343246	0.023925	66.66232	1.338387	66.66232	1.338387	0.024202	67.30033	1.333078	0.024447	68.96726
37	V	105.58437	1.429775	0.051388	107.15897	1.403478	107.15897	1.403478	0.051293	108.81455	1.380122	0.051085	110.48027
38	E	66.22554	1.320294	0.022952	67.91752	1.315195	67.91752	1.315195	0.023197	69.61001	1.302679	0.023399	71.30965
39	V	106.96569	1.381329	0.048446	108.55616	1.357189	108.55616	1.357189	0.048289	110.24665	1.332095	0.048027	112.02241
40	E	68.52381	1.298266	0.022028	69.21048	1.292961	69.21048	1.292961	0.022234	69.89728	1.287268	0.022411	71.63073
41	V	108.30131	1.335618	0.045711	109.87875	1.311688	109.87875	1.311688	0.045501	111.53355	1.286896	0.045199	113.20033
42	E	69.80093	1.277115	0.021151	70.46721	1.271634	70.46721	1.271634	0.021321	71.16307	1.265793	0.021475	72.82542
43	V	109.59377	1.292453	0.043165	111.15662	1.268772	111.15662	1.268772	0.042916	112.82542	1.244314	0.042582	114.48027
44	E	71.05772	1.256798	0.020317	71.73228	1.251167	71.73228	1.251167	0.020467	72.40827	1.245201	0.020592	74.00033
45	V	110.84542	1.251657	0.040796	112.36488	1.228256	112.36488	1.228256	0.040516	114.00323	1.204157	0.040157	115.66726
46	E	72.29500	1.237273	0.019525	72.96479	1.231514	72.96479	1.231514	0.019653	73.63372	1.225445	0.019736	75.30793
47	V	112.05849	1.213067	0.038590	113.55485	1.189972	113.55485	1.189972	0.038284	115.24665	1.166249	0.037908	116.96725
48	E	73.51349	1.218499	0.018774	74.11742	1.212633	74.11742	1.212633	0.018881	74.84019	1.206480	0.018965	76.50033
49	V	113.23502	1.176532	0.036535	114.76862	1.153763	114.76862	1.153763	0.036209	116.47869	1.130429	0.035820	118.10726
50	E	74.71393	1.200439	0.018060	75.31191	1.194485	75.31191	1.194485	0.018148	76.02846	1.188263	0.018217	77.63073
51	V	114.37694	1.141914	0.034618	115.82810	1.119486	115.82810	1.119486	0.034277	117.48027	1.096549	0.033880	119.24665
52	E	75.89699	1.183059	0.017380	76.51894	1.177031	76.51894	1.177031	0.017454	77.19921	1.170755	0.017508	78.82542
53	V	115.48602	1.109086	0.032828	116.91511	1.087007	116.91511	1.087007	0.032479	118.53313	1.064473	0.032076	120.20033
54	E	77.06332	1.166323	0.016736	77.70918	1.160236	77.70918	1.160236	0.016795	78.39728	1.153920	0.016835	80.00033
55	V	116.56395	1.077929	0.031157	117.91132	1.056207	117.91132	1.056207	0.030800	119.53313	1.034078	0.030395	121.10726
56	E	78.21352	1.150201	0.016122	78.81324	1.144067	78.81324	1.144067	0.016169	79.49085	1.137721	0.016199	80.72520
57	V	117.61329	1.048334	0.029595	118.95829	1.026973	118.95829	1.026973	0.029234	120.53313	1.005247	0.028831	122.10033
58	E	79.34818	1.134663	0.015538	79.91174	1.128492	79.91174	1.128492	0.015575	80.61298	1.122126	0.015595	82.20033
59	V	118.63249	1.020201	0.028133	119.90749	0.999202	119.90749	0.999202	0.027771	121.48027	0.977878	0.027369	123.20033
60	E	80.46786	1.119680	0.014983	81.00522	1.113483	81.00522	1.113483	0.015009	81.72008	1.107105	0.015021	83.30793
61	V	119.62592	0.993435	0.026766	120.91029	0.972799	120.91029	0.972799	0.026403	122.48027	0.951872	0.026006	124.10033
62	E	81.57309	1.105227	0.014453	82.10423	1.095011	82.10423	1.095011	0.014472	82.81271	1.093269	0.014476	84.20033
63	V	120.59387	0.967952	0.025483	121.97966	0.947676	121.97966	0.947676	0.025123	123.23593	0.927142	0.024730	125.10033
64	E	82.66436	1.091277	0.013950	83.21928	1.085051	83.21928	1.085051	0.013960	83.91138	1.078671	0.013958	85.20033
65	V	121.53755	0.943672	0.024280	122.80172	0.923752	122.80172	0.923752	0.023924	124.43954	0.903604	0.023538	126.20033
66	E	83.74217	1.077808	0.013469	84.31086	1.071578	84.31086	1.071578	0.013473	84.95659	1.065205	0.013466	87.30793
67	V	122.45807	0.920520	0.023152	123.74267	0.900953	123.74267	0.900953	0.022799	125.30033	0.881185	0.022419	127.10033
68	E	84.80697	1.064797	0.013011	85.40943	1.058568	85.40943	1.058568	0.013010	86.00880	1.052209	0.012996	128.20033
69	V	123.35650	0.898429	0.022091	124.61188	0.879209	124.61188	0.879209	0.021744	126.10033	0.859813	0.021372	129.30793
70	E	85.85919	1.052223	0.012574	86.41543	1.046001	86.41543	1.046001	0.012567	87.04846	1.039659	0.012550	130.40033
71	V	124.23383	0.877355	0.021094	125.41034	0.858457	125.41034	0.858457	0.020752	126.71996	0.839424	0.020389	131.50033
72	E	86.89926	1.040066	0.012157	87.48928	1.033855	87.48928	1.033855	0.012146	88.07599	1.027534	0.012125	132.60033
73	V	125.09101	0.857179	0.020156	126.38977	0.838636	126.38977	0.838636	0.019821	127.53992	0.819959	0.019465	133.70033
74	E	87.92756	1.028308	0.011758	88.51139	1.022112	88.51139	1.022112	0.011743	89.09181	1.015815	0.011719	134.80033
75	V	125.92892	0.837907	0.019272	127.11866	0.819693	127.11866	0.819693	0.018943	128.34128	0.801362	0.018597	135.90033
76	E	88.94450	1.016930	0.011378	89.51215	1.010753	89.51215	1.010753	0.011359	90.09629	1.004484	0.011331	137.00033
77	V	126.74839	0.819468	0.018439	127.91024	0.801575	127.91024	0.801575	0.018118	129.12486	0.783583	0.017779	138.10033
78	E	89.95041	1.005917	0.011013	90.51191	0.999762	90.51191	0.999762	0.010991	91.08981	0.993522	0.010962	139.20033
79	V	127.55020	0.801815	0.017653	128.71447	0.784236	128.71447	0.784236	0.017339	129.89144	0.766573	0.017010	140.30033
80	E	90.94567	0.995253	0.010864	91.51103	0.989121	91.51103	0.989121	0.010641	92.07272	0.982913	0.010609	141.40033
81	V	128.33510	0.784903	0.016912	129.41211	0.767631	129.41211	0.767631	0.016605	130.54172	0.750289	0.016284	142.50033
82	E	91.93059	0.984922	0.010331	92.41985	0.976816	92.41985	0.976816	0.010305	93.04537	0.972641	0.010272	143.60033
83	V	129.10379	0.768692	0.016211	130.21382	0.751719	130.21382	0.751719	0.015912	131.37641	0.734689	0.015600	144.70033
84	E	92.90550	0.974910	0.010012	93.41868	0.968833	93.41868	0.968833	0.009983	94.00806	0.962693	0.009948	145.80033
85	V	129.85694	0.753144	0.015548	130.91029	0.736463	130.91029	0.736463	0.015256	132.00033	0.719737	0.014952	146.90033
86	E	93.87070	0.965204	0.009706	94.41784	0.959157	94.41784	0.959157	0.009676	94.96111	0.953053	0.009640	148.00033
87	V	130.59516	0.738223	0.014921	131.70211	0.721826	131.70211	0.721826	0.014637	132.80033	0.705395	0.014342	149.10033
88	E	94.82649	0.955792	0.009412	95.31761	0.943776	95.31761	0.943776	0.009381	95.90482	0.943709	0.009344	150.20033
89	V	131.31906	0.723895	0.014328	132.41098	0.707775	132.41098	0.707775	0.014051	133.50033	0.691631	0.013764	151.30033

ECCENTRICITY M		0.61				0.62				0.63			
		1ST	DIF.	2ND	DIF.	1ST	DIF.	2ND	DIF.	1ST	DIF.	2ND	DIF.
61	E	95.77316	0.946662	0.009130	96.30829	0.940678	0.009098	96.83947	0.934649	0.934649	0.009060	96.83947	0.934649
	V	132.02919	0.710130	0.013765	133.10417	0.694280	0.013495	134.17159	0.678415	0.678415	0.013216	134.17159	0.678415
62	E	96.71096	0.937801	0.008861	97.24014	0.931851	0.008827	97.65733	0.925861	0.925861	0.008788	97.65733	0.925861
	V	132.72609	0.696899	0.013231	133.78548	0.681311	0.012969	134.83731	0.665716	0.665716	0.012699	134.83731	0.665716
63	E	97.64016	0.929200	0.008601	98.16343	0.923285	0.008566	98.68266	0.917333	0.917333	0.008528	98.68266	0.917333
	V	133.41026	0.684175	0.012724	134.45432	0.668842	0.012469	135.49082	0.653510	0.653510	0.012206	135.49082	0.653510
64	E	98.56101	0.920849	0.008351	99.07839	0.914968	0.008317	99.59172	0.909056	0.909056	0.008277	99.59172	0.909056
	V	134.08219	0.671931	0.012244	135.11117	0.656846	0.011996	136.13259	0.641769	0.641769	0.011741	136.13259	0.641769
65	E	99.47374	0.912736	0.008113	99.98529	0.906891	0.008077	100.49274	0.901019	0.901019	0.008037	100.49274	0.901019
	V	134.74234	0.660144	0.011787	135.75647	0.645301	0.011545	136.76306	0.630471	0.630471	0.011298	136.76306	0.630471
66	E	100.37860	0.904854	0.007882	100.88433	0.899045	0.007846	101.38265	0.893213	0.893213	0.007806	101.38265	0.893213
	V	135.39113	0.648792	0.011352	136.39065	0.634184	0.011117	137.38598	0.619594	0.619594	0.010877	137.38598	0.619594
67	E	101.27579	0.897194	0.007660	101.77575	0.891421	0.007624	102.27158	0.885629	0.885629	0.007584	102.27158	0.885629
	V	136.02898	0.637853	0.010939	137.01413	0.623473	0.010711	137.99177	0.609117	0.609117	0.010477	137.99177	0.609117
68	E	102.16554	0.889747	0.007447	102.65976	0.884011	0.007410	103.14984	0.878259	0.878259	0.007370	103.14984	0.878259
	V	136.65629	0.627309	0.010544	137.62728	0.613150	0.010323	138.59079	0.599021	0.599021	0.010096	138.59079	0.599021
69	E	103.04804	0.882506	0.007241	103.53657	0.876806	0.007205	104.02093	0.871094	0.871094	0.007165	104.02093	0.871094
	V	137.27343	0.617139	0.010170	138.23047	0.603196	0.009954	139.18008	0.589287	0.589287	0.009734	139.18008	0.589287
70	E	103.92351	0.875463	0.007043	104.40637	0.869799	0.007007	104.88506	0.864127	0.864127	0.006967	104.88506	0.864127
	V	137.88076	0.607327	0.009812	138.82407	0.593594	0.009602	139.75998	0.579898	0.579898	0.009389	139.75998	0.579898
71	E	104.79212	0.868610	0.006853	105.26935	0.862983	0.006816	105.74241	0.857350	0.857350	0.006777	105.74241	0.857350
	V	138.47861	0.597857	0.009470	139.40839	0.584327	0.009267	140.33081	0.570839	0.570839	0.009059	140.33081	0.570839
72	E	105.65406	0.861942	0.006668	106.12570	0.856351	0.006632	106.59317	0.850758	0.850758	0.006592	106.59317	0.850758
	V	139.06733	0.588713	0.009144	139.98377	0.575381	0.008946	140.89291	0.562094	0.562094	0.008745	140.89291	0.562094
73	E	106.50951	0.855451	0.006491	106.97560	0.849897	0.006454	107.43751	0.844342	0.844342	0.006416	107.43751	0.844342
	V	139.64721	0.579879	0.008834	140.55051	0.566740	0.008641	141.44656	0.553648	0.553648	0.008446	141.44656	0.553648
74	E	107.35864	0.849132	0.006319	107.81921	0.843614	0.006283	108.27561	0.838098	0.838098	0.006244	108.27561	0.838098
	V	140.21855	0.571343	0.008536	141.10891	0.558391	0.008349	141.99204	0.545489	0.545489	0.008159	141.99204	0.545489
75	E	108.20162	0.842978	0.006154	108.65671	0.837496	0.006118	109.10763	0.832018	0.832018	0.006080	109.10763	0.832018
	V	140.78164	0.563092	0.008251	141.65923	0.550321	0.008070	142.52965	0.537603	0.537603	0.007886	142.52965	0.537603
76	E	109.03860	0.836984	0.005994	109.48825	0.831537	0.005959	109.93372	0.826098	0.826098	0.005920	109.93372	0.826098
	V	141.33675	0.555113	0.007979	142.20175	0.542519	0.007802	143.05963	0.529980	0.529980	0.007623	143.05963	0.529980
77	E	109.86975	0.831144	0.005840	110.31398	0.825733	0.005804	110.75406	0.820331	0.820331	0.005767	110.75406	0.820331
	V	141.88415	0.547394	0.007719	142.73672	0.534971	0.007548	143.58224	0.522606	0.522606	0.007374	143.58224	0.522606
78	E	110.69520	0.825454	0.005690	111.13406	0.820078	0.005655	111.56877	0.814713	0.814713	0.005618	111.56877	0.814713
	V	142.42407	0.539925	0.007469	143.26439	0.527669	0.007302	144.09771	0.515473	0.515473	0.007133	144.09771	0.515473
79	E	111.51511	0.819909	0.005545	111.94863	0.814568	0.005510	112.37801	0.809239	0.809239	0.005474	112.37801	0.809239
	V	142.95677	0.532695	0.007230	143.78499	0.520601	0.007068	144.60628	0.508569	0.508569	0.006904	144.60628	0.508569
80	E	112.32961	0.814504	0.005405	112.75782	0.809197	0.005371	113.18191	0.803904	0.803904	0.005335	113.18191	0.803904
	V	143.38824	0.525694	0.007201	144.29875	0.513758	0.006843	145.10816	0.501885	0.501885	0.006684	145.10816	0.501885
81	E	113.13885	0.809234	0.005270	113.56178	0.803961	0.005236	113.98061	0.798704	0.798704	0.005200	113.98061	0.798704
	V	144.00137	0.518913	0.006781	144.80588	0.507131	0.006627	145.60357	0.495413	0.495413	0.006472	145.60357	0.495413
82	E	113.94294	0.804095	0.005139	114.36064	0.798855	0.005106	114.77425	0.793633	0.793633	0.005071	114.77425	0.793633
	V	144.51372	0.512344	0.006569	145.30659	0.500711	0.006420	146.09272	0.489143	0.489143	0.006270	146.09272	0.489143
83	E	114.74203	0.799083	0.005012	115.15452	0.793877	0.004978	115.56294	0.788689	0.788689	0.004944	115.56294	0.788689
	V	145.01969	0.505977	0.006367	145.80108	0.494489	0.006222	146.57579	0.483068	0.483068	0.006075	146.57579	0.483068
84	E	115.53622	0.794195	0.004888	115.94354	0.789021	0.004856	116.34680	0.783868	0.783868	0.004821	116.34680	0.783868
	V	145.51950	0.499805	0.006172	146.28954	0.488459	0.006030	147.05297	0.477179	0.477179	0.005889	147.05297	0.477179
85	E	116.32565	0.789426	0.004769	116.72782	0.784284	0.004737	117.12597	0.779164	0.779164	0.004704	117.12597	0.779164
	V	146.01332	0.493821	0.005984	146.77215	0.482611	0.005848	147.52444	0.471470	0.471470	0.005709	147.52444	0.471470
86	E	117.11042	0.784773	0.004653	117.50748	0.779663	0.004621	117.90055	0.774576	0.774576	0.004588	117.90055	0.774576
	V	146.50134	0.488017	0.005804	147.24909	0.476941	0.005670	147.99037	0.465934	0.465934	0.005536	147.99037	0.465934
87	E	117.89065	0.780232	0.004541	118.28264	0.775154	0.004509	118.67064	0.770099	0.770099	0.004477	118.67064	0.770099
	V	146.98372	0.482386	0.005631	147.72053	0.471439	0.005502	148.45093	0.460563	0.460563	0.005371	148.45093	0.460563
88	E	118.66645	0.775801	0.004431	119.05339	0.770753	0.004401	119.43638	0.765731	0.765731	0.004368	119.43638	0.765731
	V	147.46064	0.476922	0.005464	148.18663	0.466102	0.005337	148.90628	0.455353	0.455353	0.005210	148.90628	0.455353
89	E	119.43793	0.771475	0.004326	119.81985	0.766458	0.004295	120.19784	0.761467	0.761467	0.004264	120.19784	0.761467
	V	147.93226	0.471618	0.005304	148.64755	0.460921	0.005181	149.35658	0.450296	0.450296	0.005057	149.35658	0.450296
90	E	120.20518	0.767253	0.004222	120.58211	0.762265	0.004193	120.95515	0.757305	0.757305	0.004162	120.95515	0.757305
	V	148.39873	0.466470	0.005148	149.10344	0.455893	0.005028	149.80197	0.445387	0.445387	0.004909	149.80197	0.445387

ECCENTRICITY
M

		0.61 1ST DIF.	2ND DIF.	0.62 1ST DIF.	2ND DIF.	0.63 1ST DIF.	2ND DIF.
91	E	120.96831	0.763131	0.004122	0.004093	0.753243	0.004062
	V	148.86020	0.461471	0.004999	0.004883	0.440622	0.004765
92	E	121.72742	0.759106	0.004025	0.003996	0.749277	0.003966
	V	149.31682	0.456616	0.004855	0.004742	0.446268	0.004629
93	E	122.48259	0.755175	0.003931	0.003902	0.745404	0.003873
	V	149.76872	0.451899	0.004717	0.004606	0.443498	0.004495
94	E	123.23393	0.751337	0.003838	0.003810	0.741622	0.003782
	V	150.21603	0.447317	0.004582	0.004474	0.442131	0.004367
95	E	123.98152	0.747588	0.003749	0.003721	0.737930	0.003692
	V	150.65890	0.442865	0.004452	0.004348	0.442888	0.004243
96	E	124.72545	0.743927	0.003661	0.003635	0.734323	0.003607
	V	151.09744	0.438537	0.004328	0.004226	0.4418764	0.004124
97	E	125.46580	0.740350	0.003577	0.003558	0.730800	0.003523
	V	151.53177	0.434330	0.004207	0.004108	0.4414756	0.004008
98	E	126.20265	0.736856	0.003494	0.003468	0.727359	0.003441
	V	152.81067	0.422397	0.003867	0.003775	0.4410859	0.003897
99	E	126.93609	0.733443	0.003258	0.003233	0.723998	0.003361
	V	152.38827	0.426264	0.003977	0.003883	0.4407071	0.003788
100	E	127.66620	0.730108	0.003335	0.003310	0.720714	0.003284
	V	152.81067	0.422397	0.003867	0.003775	0.4403387	0.003684
101	E	128.39305	0.726850	0.003183	0.003159	0.717506	0.003208
	V	153.22930	0.418635	0.003762	0.003673	0.439803	0.003584
102	E	129.11672	0.723667	0.003110	0.003086	0.714372	0.003134
	V	153.64428	0.414970	0.003659	0.003572	0.396318	0.003485
103	E	129.83727	0.720557	0.003110	0.003086	0.711310	0.003062
	V	154.05570	0.411417	0.003559	0.003475	0.392928	0.003390
104	E	130.55479	0.717517	0.003040	0.003016	0.708318	0.002992
	V	154.46365	0.407954	0.003463	0.003380	0.389630	0.003298
105	E	131.26934	0.714548	0.002969	0.002947	0.705395	0.002923
	V	154.86823	0.404584	0.003370	0.003290	0.386420	0.003210
106	E	131.98099	0.711646	0.002902	0.002879	0.702539	0.002856
	V	155.26954	0.401305	0.003279	0.003201	0.383297	0.003123
107	E	132.68980	0.708811	0.002835	0.002813	0.699748	0.002791
	V	155.66765	0.398113	0.003192	0.003115	0.380258	0.003039
108	E	133.39584	0.706040	0.002771	0.002749	0.697021	0.002727
	V	156.06266	0.395007	0.003106	0.003032	0.377300	0.002958
109	E	134.09917	0.703333	0.002707	0.002686	0.694357	0.002664
	V	156.45464	0.391984	0.003023	0.002951	0.374421	0.002879
110	E	134.79986	0.700688	0.002645	0.002624	0.691754	0.002603
	V	156.84368	0.389041	0.002943	0.002873	0.371619	0.002802
111	E	135.49796	0.698104	0.002584	0.002564	0.689211	0.002543
	V	157.22986	0.386176	0.002865	0.002796	0.368892	0.002727
112	E	136.19354	0.695579	0.002525	0.002505	0.686726	0.002485
	V	157.61325	0.383388	0.002788	0.002721	0.366237	0.002655
113	E	136.88665	0.693111	0.002468	0.002448	0.684298	0.002428
	V	157.99392	0.380673	0.002715	0.002650	0.363652	0.002585
114	E	137.57735	0.690701	0.002410	0.002391	0.681927	0.002371
	V	158.37195	0.378030	0.002643	0.002580	0.361136	0.002516
115	E	138.26570	0.688347	0.002354	0.002336	0.679610	0.002317
	V	158.74741	0.375457	0.002573	0.002511	0.358686	0.002450
116	E	138.95175	0.686047	0.002303	0.002281	0.677347	0.002263
	V	159.12036	0.372952	0.002505	0.002444	0.356302	0.002384
117	E	139.63555	0.683800	0.002247	0.002228	0.675137	0.002210
	V	159.49087	0.370514	0.002438	0.002380	0.353980	0.002322
118	E	140.31715	0.681606	0.002194	0.002177	0.672979	0.002158
	V	159.85901	0.368140	0.002374	0.002317	0.351721	0.002259
119	E	140.99662	0.679464	0.002142	0.002125	0.670871	0.002108
	V	160.22484	0.365829	0.002311	0.002255	0.349921	0.002200
120	E	141.67399	0.677372	0.002092	0.002075	0.668813	0.002058
	V	160.58842	0.363580	0.002249	0.002195	0.347380	0.002141

ECCENTRICITY M		0-61		2ND DIF.		0-62		2ND DIF.		0-63		2ND DIF.	
		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.	
121	E	142.34932	0.675329	0.002043	142.58395	0.671044	0.002027	142.81586	0.668803	0.668803	0.002010	0.668803	0.002010
122	V	160.94981	0.361390	0.002190	161.37173	0.353307	0.002137	161.78973	0.345295	0.345295	0.002085	0.345295	0.002085
123	V	143.02265	0.673335	0.001994	143.25302	0.669066	0.001978	143.48070	0.664842	0.664842	0.001961	0.664842	0.001961
124	V	161.30907	0.359235	0.002131	161.72296	0.351227	0.002080	162.13300	0.343267	0.343267	0.002028	0.343267	0.002028
125	E	143.69404	0.671388	0.001947	143.92015	0.667136	0.001930	144.14363	0.662927	0.662927	0.001915	0.662927	0.001915
126	V	161.66625	0.357185	0.002074	162.07216	0.349203	0.002024	162.47429	0.341292	0.341292	0.001975	0.341292	0.001975
127	E	144.36353	0.669488	0.001900	144.58540	0.665252	0.001884	144.80469	0.661059	0.661059	0.001868	0.661059	0.001868
128	V	162.02142	0.355166	0.002019	162.41940	0.347233	0.001970	162.81366	0.339371	0.339371	0.001921	0.339371	0.001921
129	E	145.03116	0.667635	0.001853	145.24882	0.663413	0.001839	145.46392	0.659236	0.659236	0.001823	0.659236	0.001823
130	V	162.37462	0.353202	0.001964	162.76471	0.345317	0.001916	163.15117	0.337502	0.337502	0.001869	0.337502	0.001869
131	E	145.69699	0.665826	0.001809	145.91044	0.661619	0.001794	146.12138	0.657457	0.657457	0.001779	0.657457	0.001779
132	V	162.72591	0.351291	0.001911	163.10816	0.343452	0.001865	163.48685	0.335683	0.335683	0.001819	0.335683	0.001819
133	E	146.36105	0.664062	0.001764	146.57030	0.659870	0.001749	146.77710	0.655722	0.655722	0.001735	0.655722	0.001735
134	V	163.07535	0.349432	0.001859	163.44980	0.341638	0.001814	163.82076	0.333914	0.333914	0.001769	0.333914	0.001769
135	E	147.02340	0.662342	0.001720	147.22847	0.658164	0.001706	147.43113	0.654030	0.654030	0.001692	0.654030	0.001692
136	V	163.42297	0.347624	0.001808	163.78968	0.339873	0.001765	164.15296	0.332193	0.332193	0.001721	0.332193	0.001721
137	E	147.68406	0.660665	0.001677	147.88497	0.656500	0.001664	148.08351	0.652380	0.652380	0.001650	0.652380	0.001650
138	V	163.76884	0.345866	0.001758	164.12783	0.338157	0.001716	164.48347	0.330519	0.330519	0.001674	0.330519	0.001674
139	E	148.34309	0.659029	0.001636	148.53985	0.654878	0.001622	148.73428	0.650772	0.650772	0.001608	0.650772	0.001608
140	V	164.11299	0.344156	0.001710	164.46432	0.336489	0.001668	164.81237	0.328892	0.328892	0.001627	0.328892	0.001627
141	E	149.00052	0.657436	0.001593	149.19315	0.653298	0.001580	149.38349	0.649205	0.649205	0.001567	0.649205	0.001567
142	V	164.45548	0.342493	0.001663	164.79919	0.334867	0.001622	165.13968	0.327309	0.327309	0.001583	0.327309	0.001583
143	E	149.65641	0.655883	0.001553	149.84490	0.651758	0.001540	150.03116	0.647678	0.647678	0.001527	0.647678	0.001527
144	V	164.79636	0.340878	0.001615	165.13248	0.333290	0.001577	165.46545	0.325772	0.325772	0.001537	0.325772	0.001537
145	E	150.31078	0.654371	0.001512	150.49516	0.650258	0.001500	150.67735	0.646191	0.646191	0.001487	0.646191	0.001487
146	V	165.13567	0.339307	0.001571	165.46424	0.3331758	0.001532	165.78972	0.324277	0.324277	0.001495	0.324277	0.001495
147	E	150.96368	0.652898	0.001473	151.14396	0.648798	0.001460	151.32210	0.644743	0.644743	0.001448	0.644743	0.001448
148	V	165.47345	0.337782	0.001525	165.79451	0.330269	0.001489	166.11255	0.322826	0.322826	0.001451	0.322826	0.001451
149	E	151.61514	0.651465	0.001433	151.79134	0.647376	0.001422	151.96543	0.643333	0.643333	0.001411	0.643333	0.001411
150	V	165.80975	0.336300	0.001482	166.12333	0.328824	0.001445	166.43397	0.321415	0.321415	0.001399	0.321415	0.001399
151	E	152.26521	0.650070	0.001395	152.43733	0.645993	0.001383	152.60739	0.641962	0.641962	0.001371	0.641962	0.001371
152	V	166.14462	0.334862	0.001438	166.45075	0.327420	0.001404	166.75401	0.320046	0.320046	0.001369	0.320046	0.001369
153	E	152.91393	0.648713	0.001357	153.08198	0.644647	0.001346	153.24802	0.640627	0.640627	0.001335	0.640627	0.001335
154	V	166.47808	0.333465	0.001397	166.77681	0.326057	0.001363	167.07273	0.318717	0.318717	0.001329	0.318717	0.001329
155	E	153.56132	0.647394	0.001319	153.72532	0.643339	0.001308	153.88735	0.639330	0.639330	0.001297	0.639330	0.001297
156	V	166.81019	0.332110	0.001355	167.10154	0.324735	0.001322	167.39016	0.317428	0.317428	0.001289	0.317428	0.001289
157	E	154.20743	0.646111	0.001283	154.36738	0.642067	0.001272	154.52542	0.638069	0.638069	0.001261	0.638069	0.001261
158	V	167.14099	0.330796	0.001314	167.42500	0.323453	0.001282	167.70633	0.316177	0.316177	0.001251	0.316177	0.001251
159	E	154.85230	0.644866	0.001245	155.00821	0.640832	0.001235	155.16226	0.636844	0.636844	0.001225	0.636844	0.001225
160	V	167.47051	0.329521	0.001275	167.74720	0.322209	0.001244	168.02130	0.314964	0.314964	0.001213	0.314964	0.001213
161	E	155.49595	0.643656	0.001210	155.64785	0.639632	0.001200	155.79792	0.635654	0.635654	0.001190	0.635654	0.001190
162	V	167.79879	0.328286	0.001235	168.06821	0.321004	0.001205	168.33509	0.313788	0.313788	0.001176	0.313788	0.001176
163	E	156.13843	0.642481	0.001175	156.28631	0.638468	0.001164	156.43240	0.634500	0.634500	0.001154	0.634500	0.001154
164	V	168.12588	0.327089	0.001197	168.38804	0.319836	0.001168	168.64774	0.312650	0.312650	0.001138	0.312650	0.001138
165	E	156.77978	0.641342	0.001139	156.92365	0.637338	0.001130	157.06580	0.633380	0.633380	0.001120	0.633380	0.001120
166	V	168.45181	0.325930	0.001159	168.70675	0.318705	0.001131	168.95928	0.311547	0.311547	0.001103	0.311547	0.001103
167	E	157.42001	0.640238	0.001104	157.55989	0.636243	0.001095	157.69809	0.632294	0.632294	0.001086	0.632294	0.001086
168	V	168.77662	0.324809	0.001121	169.02436	0.317611	0.001094	169.26976	0.310479	0.310479	0.001068	0.310479	0.001068
169	E	158.05918	0.639168	0.001070	158.19508	0.635182	0.001061	158.32933	0.631242	0.631242	0.001052	0.631242	0.001052
170	V	169.10035	0.323724	0.001085	169.34091	0.316552	0.001059	169.57921	0.309447	0.309447	0.001032	0.309447	0.001032
171	E	158.69731	0.638131	0.001037	158.82923	0.634154	0.001028	158.95956	0.630223	0.630223	0.001019	0.630223	0.001019
172	V	169.42302	0.322675	0.001049	169.65644	0.315529	0.001023	169.88766	0.308449	0.308449	0.000998	0.308449	0.000998
173	E	159.33444	0.637129	0.001002	159.46239	0.633160	0.000994	159.58879	0.629237	0.629237	0.000986	0.629237	0.000986
174	V	169.74468	0.321662	0.001013	169.97098	0.314540	0.000989	170.19514	0.307485	0.307485	0.000964	0.307485	0.000964
175	E	159.97060	0.636159	0.000970	160.09459	0.6332198	0.000962	160.21708	0.628284	0.628284	0.000953	0.628284	0.000953
176	V	170.06537	0.320684	0.000978	170.28456	0.313585	0.000955	170.50170	0.306554	0.306554	0.000931	0.306554	0.000931
177	E	160.60582	0.635222	0.000937	160.72586	0.631269	0.000929	160.84444	0.627363	0.627363	0.000921	0.627363	0.000921
178	V	170.38511	0.319740	0.000944	170.59723	0.312665	0.000920	170.80735	0.305656	0.305656	0.000898	0.305656	0.000898
179	E	161.24014	0.634318	0.000904	161.35623	0.630373	0.000896	161.47091	0.626474	0.626474	0.000889	0.626474	0.000889
180	V	170.70394	0.318830	0.000910	170.90901	0.311777	0.000888	171.11214	0.304790	0.304790	0.000866	0.304790	0.000866

ECCENTRICITY	1st ⁶³ DIF.	2ND DIF.	1st ⁶² DIF.	2ND DIF.	1st ⁶³ DIF.	2ND DIF.
151 E	161.87359	0.000872	161.98374	0.000872	0.629508	0.000865
152 E	171.02189	0.000876	171.21993	0.000876	0.310922	0.000855
153 E	162.50619	0.000840	162.61441	0.000840	0.628675	0.000834
154 E	171.33900	0.000843	171.53003	0.000843	0.310100	0.000826
155 E	163.13799	0.000809	163.24229	0.000809	0.627873	0.000822
156 E	171.65530	0.000810	171.83934	0.000810	0.309309	0.000802
157 E	163.76901	0.000777	163.86939	0.000777	0.627102	0.000795
158 E	171.97083	0.000778	172.14789	0.000778	0.308550	0.000771
159 E	164.39928	0.000747	164.49375	0.000747	0.626362	0.000740
160 E	172.28560	0.000746	172.45571	0.000746	0.307822	0.000734
161 E	165.02884	0.000715	165.12140	0.000715	0.625652	0.000728
162 E	172.59967	0.000714	172.76284	0.000714	0.307125	0.000710
163 E	165.65771	0.000685	165.74638	0.000685	0.624973	0.000703
164 E	172.91305	0.000683	173.06930	0.000683	0.306459	0.000680
165 E	166.28593	0.000655	166.37070	0.000655	0.624324	0.000674
166 E	173.22577	0.000653	173.37512	0.000653	0.305822	0.000664
167 E	166.91352	0.000625	166.99440	0.000625	0.623704	0.000621
168 E	173.53788	0.000622	173.68033	0.000622	0.305215	0.000614
169 E	167.54052	0.000595	167.51752	0.000595	0.623114	0.000592
170 E	173.84939	0.000591	173.98497	0.000591	0.304638	0.000585
171 E	168.16695	0.000566	168.24007	0.000566	0.622553	0.000563
172 E	174.16035	0.000562	174.28906	0.000562	0.304090	0.000556
173 E	168.79285	0.000536	168.86209	0.000536	0.622022	0.000534
174 E	174.47077	0.000532	174.59263	0.000532	0.303571	0.000527
175 E	169.41824	0.000506	169.48361	0.000506	0.621519	0.000522
176 E	174.78068	0.000502	174.93571	0.000502	0.303081	0.000506
177 E	170.04315	0.000478	170.10466	0.000478	0.621046	0.000489
178 E	175.09013	0.000473	175.19833	0.000473	0.302619	0.000469
179 E	170.66762	0.000449	170.72526	0.000449	0.620601	0.000451
180 E	175.39913	0.000445	175.50552	0.000445	0.302186	0.000442
181 E	171.29166	0.000420	171.34544	0.000420	0.620184	0.000422
182 E	175.70771	0.000415	175.80230	0.000415	0.301780	0.000412
183 E	171.91531	0.000391	171.96524	0.000391	0.619796	0.000396
184 E	176.01591	0.000387	176.10370	0.000387	0.301403	0.000385
185 E	172.53860	0.000363	172.58468	0.000363	0.619437	0.000368
186 E	176.32375	0.000359	176.40475	0.000359	0.301053	0.000357
187 E	173.63126	0.000334	173.70349	0.000334	0.619105	0.000341
188 E	170.78420	0.000330	170.83258	0.000330	0.300731	0.000329
189 E	176.93847	0.000307	177.00258	0.000307	0.618801	0.000314
190 E	174.40657	0.000302	174.44111	0.000302	0.300436	0.000301
191 E	177.24540	0.000278	177.30573	0.000278	0.618526	0.000288
192 E	175.02869	0.000275	175.10609	0.000275	0.300168	0.000273
193 E	177.55209	0.000250	177.60539	0.000250	0.618278	0.000261
194 E	175.65059	0.000246	175.70366	0.000246	0.299928	0.000246
195 E	178.77692	0.000222	178.83866	0.000222	0.618058	0.000235
196 E	176.89383	0.000219	176.95331	0.000219	0.300016	0.000218
197 E	178.16483	0.000194	178.20326	0.000194	0.617865	0.000208
198 E	176.72723	0.000191	176.76540	0.000191	0.299527	0.000200
199 E	178.13652	0.000166	178.18003	0.000166	0.617700	0.000191
200 E	179.08278	0.000164	179.12999	0.000164	0.299368	0.000182
201 E	177.51523	0.000139	177.56057	0.000139	0.617563	0.000163
202 E	178.77692	0.000136	178.83866	0.000136	0.299235	0.000156
203 E	176.89383	0.000110	176.95331	0.000110	0.617453	0.000130
204 E	178.16483	0.000109	178.20326	0.000109	0.299128	0.000108
205 E	179.08278	0.000083	179.12999	0.000083	0.617371	0.000103
206 E	177.51523	0.000082	177.56057	0.000082	0.299048	0.000082
207 E	178.77692	0.000056	178.83866	0.000056	0.617289	0.000078
208 E	176.89383	0.000055	176.95331	0.000055	0.299128	0.000078
209 E	178.16483	0.000027	178.20326	0.000027	0.617170	0.000054
210 E	179.08278	0.000027	179.12999	0.000027	0.299048	0.000052
211 E	177.51523	0.000027	177.56057	0.000027	0.617000	0.000028
212 E	178.77692	0.000027	178.83866	0.000027	0.298928	0.000028
213 E	176.89383	0.000027	176.95331	0.000027	0.616829	0.000028
214 E	178.16483	0.000027	178.20326	0.000027	0.298759	0.000028
215 E	179.08278	0.000027	179.12999	0.000027	0.616665	0.000028
216 E	177.51523	0.000027	177.56057	0.000027	0.298595	0.000028
217 E	178.77692	0.000027	178.83866	0.000027	0.616531	0.000028
218 E	176.89383	0.000027	176.95331	0.000027	0.298468	0.000028
219 E	178.16483	0.000027	178.20326	0.000027	0.616373	0.000028
220 E	179.08278	0.000027	179.12999	0.000027	0.298309	0.000028
221 E	177.51523	0.000027	177.56057	0.000027	0.616228	0.000028
222 E	178.77692	0.000027	178.83866	0.000027	0.298168	0.000028
223 E	176.89383	0.000027	176.95331	0.000027	0.616049	0.000028
224 E	178.16483	0.000027	178.20326	0.000027	0.297979	0.000028
225 E	179.08278	0.000027	179.12999	0.000027	0.615939	0.000028
226 E	177.51523	0.000027	177.56057	0.000027	0.297843	0.000028
227 E	178.77692	0.000027	178.83866	0.000027	0.615728	0.000028
228 E	176.89383	0.000027	176.95331	0.000027	0.297678	0.000028
229 E	178.16483	0.000027	178.20326	0.000027	0.615588	0.000028
230 E	179.08278	0.000027	179.12999	0.000027	0.297468	0.000028
231 E	177.51523	0.000027	177.56057	0.000027	0.615302	0.000028
232 E	178.77692	0.000027	178.83866	0.000027	0.297229	0.000028
233 E	176.89383	0.000027	176.95331	0.000027	0.615001	0.000028
234 E	178.16483	0.000027	178.20326	0.000027	0.296873	0.000028
235 E	179.08278	0.000027	179.12999	0.000027	0.614728	0.000028
236 E	177.51523	0.000027	177.56057	0.000027	0.296672	0.000028
237 E	178.77692	0.000027	178.83866	0.000027	0.614563	0.000028
238 E	176.89383	0.000027	176.95331	0.000027	0.296469	0.000028
239 E	178.16483	0.000027	178.20326	0.000027	0.614302	0.000028
240 E	179.08278	0.000027	179.12999	0.000027	0.296179	0.000028
241 E	177.51523	0.000027	177.56057	0.000027	0.614073	0.000028
242 E	178.77692	0.000027	178.83866	0.000027	0.295949	0.000028
243 E	176.89383	0.000027	176.95331	0.000027	0.613804	0.000028
244 E	178.16483	0.000027	178.20326	0.000027	0.293621	0.000028
245 E	179.08278	0.000027	179.12999	0.000027	0.613501	0.000028
246 E	177.51523	0.000027	177.56057	0.000027	0.293329	0.000028
247 E	178.77692	0.000027	178.83866	0.000027	0.613032	0.000028
248 E	176.89383	0.000027	176.95331	0.000027	0.292729	0.000028
249 E	178.16483	0.000027	178.20326	0.000027	0.612522	0.000028
250 E	179.08278	0.000027	179.12999	0.000027	0.292346	0.000028
251 E	177.51523	0.000027	177.56057	0.000027	0.612289	0.000028
252 E	178.77692	0.000027	178.83866	0.000027	0.292174	0.000028
253 E	176.89383	0.000027	176.95331	0.000027	0.612000	0.000028
254 E	178.16483	0.000027	178.20326	0.000027	0.291829	0.000028
255 E	179.08278	0.000027	179.12999	0.000027	0.611700	0.000028
256 E	177.51523	0.000027	177.56057	0.000027	0.291539	0.000028
257 E	178.77692	0.000027	178.83866	0.000027	0.611390	0.000028
258 E	176.89383	0.000027	176.95331	0.000027	0.291230	0.000028
259 E	178.16483	0.000027	178.20326	0.000027	0.291077	0.000028
260 E	179.08278	0.000027	179.12999	0.000027	0.610982	0.000028
261 E	177.51523	0.000027	177.56057	0.000027	0.290880	0.000028
262 E	178.77692	0.000027	178.83866	0.000027	0.610817	0.000028
263 E	176.89383	0.000027	176.95331	0.000027	0.290729	0.000028
264 E	178.16483	0.000027	178.20326	0.000027	0.610655	0.000028
265 E	179.08278	0.000027	179.12999	0.000027	0.290599	0.000028
266 E	177.51523	0.000027	177.56057	0.000027	0.610531	0.000028
267 E	178.77692	0.000027	178.83866	0.000027	0.290473	0.000028
268 E	176.89383	0.000027	176.95331	0.000027	0.610406	0.000028
269 E	178.16483	0.000027	178.20326	0.000027	0.290350	0.000028
270 E	179.08278	0.000027	179.12999	0.000027	0.610289	0.000028
271 E	177.51523	0.000027	177.56057	0.000027	0.290268	0.000028
272 E	178.77692	0.000027	178.83866	0.000027	0.610204	0.000028
273 E	176.89383	0.000027	176.95331	0.000027	0.290168	0.000028
274 E	178.16483	0.000027	178.20326	0.000027	0.610107	0.000028
275 E	179.08278	0.000027	179.12999	0.000027	0.290082	0.000028
276 E	177.51523	0.000027	177.56057	0.000027	0.610080	0.000028
277 E	178.77692	0.000027	178.83866	0.000027	0.290055	0.000028
278 E	176.89383	0.000027	176.95331	0.000027	0.290032	0.000028
279 E	178.16483	0.000027	178.20326	0.000027	0.610000	0.000028
280 E	179.08278	0.000027	179.12999	0.000027	0.299969	0.000028
281 E	177.51523	0.000027	177			

ECCENTRICITY
M

	0.64	1ST DIF.	2ND DIF.	0.65	1ST DIF.	2ND DIF.	0.66	1ST DIF.	2ND DIF.
1 E	2.77585			2.85495			2.93868		
2 V	5.92058	2.764367		6.19402	2.841913		6.48779	2.923830	
3 V	11.79231	5.871728		12.33163	6.137609		12.91023	6.422438	
4 E	17.56901	5.776694	0.022469	18.51332	6.028177	0.025458	19.20630	6.296063	0.028920
5 V	23.20948	5.640472	0.095034	24.23183	5.879724	0.109432	25.32293	6.036731	0.126375
6 V	28.67921	5.469729	0.032532	29.30928	5.72021	0.036731	30.11606	5.853347	0.041563
7 E	33.95124	5.264902	0.136222	34.02631	5.572021	0.056136	34.41191	5.616636	0.179427
8 E	39.06377	5.051332	0.041334	39.30928	5.433753	0.046455	39.74541	5.411181	0.2801049
9 E	43.82668	4.826303	0.041334	44.02631	5.293753	0.046455	44.41191	5.293753	0.052298
10 V	48.42465	4.591972	0.170743	48.70518	5.153753	0.046455	49.08743	5.074501	0.060872
11 E	52.78213	4.357480	0.058734	53.06303	5.013753	0.046455	53.44119	4.934501	0.060872
12 E	56.90916	4.127025	0.028829	57.18709	4.873753	0.046455	57.56303	4.794501	0.060872
13 E	60.81288	3.903727	0.061605	60.25561	4.733753	0.046455	60.63033	4.654501	0.060872
14 E	64.50264	3.689757	0.023431	64.66585	4.593753	0.046455	65.04401	4.514501	0.060872
15 E	67.98913	3.486494	0.063241	68.02822	4.453753	0.046455	68.41191	4.374501	0.060872
16 E	71.28383	3.294693	0.023492	71.18229	4.313753	0.046455	71.56303	4.234501	0.060872
17 E	74.39846	3.112372	0.063830	74.18229	4.173753	0.046455	74.56303	4.094501	0.060872
18 E	77.34469	2.946232	0.023492	77.18229	4.033753	0.046455	77.56303	3.954501	0.060872
19 E	80.13387	2.789182	0.063830	80.18229	3.893753	0.046455	80.56303	3.814501	0.060872
20 E	82.77687	2.642999	0.023492	82.18229	3.753753	0.046455	82.56303	3.674501	0.060872
21 E	85.28398	2.507107	0.063830	85.18229	3.613753	0.046455	85.56303	3.534501	0.060872
22 E	87.66485	2.380873	0.023492	87.18229	3.473753	0.046455	87.56303	3.394501	0.060872
23 E	89.92850	2.263646	0.063830	89.18229	3.333753	0.046455	89.56303	3.254501	0.060872
24 E	92.08327	2.154779	0.023492	92.18229	3.193753	0.046455	92.56303	3.114501	0.060872
25 E	94.13692	2.053643	0.063830	94.18229	3.053753	0.046455	94.56303	2.974501	0.060872
26 E	96.09656	1.959639	0.023492	96.18229	2.913753	0.046455	96.56303	2.834501	0.060872
27 E	97.98876	1.872202	0.063830	97.18229	2.773753	0.046455	97.56303	2.694501	0.060872
28 E	99.76106	1.793939	0.023492	99.18229	2.633753	0.046455	99.56303	2.554501	0.060872
29 E	101.47453	1.714965	0.063830	101.18229	2.493753	0.046455	101.56303	2.414501	0.060872
30 E	103.11876	1.644225	0.023492	103.18229	2.353753	0.046455	103.56303	2.274501	0.060872
	104.69693	1.578176	0.063830	104.18229	2.213753	0.046455	104.56303	2.134501	0.060872

ECCENTRICITY

		0.64 1ST DIF.	2ND DIF.	0.65 1ST DIF.	2ND DIF.	0.66 1ST DIF.	2ND DIF.
31	E	63.94180	1.404813	64.65855	1.399292	65.37650	1.393260
	V	106.21337	1.516437	107.91173	1.488015	109.61123	1.458367
32	E	65.31960	1.377794	66.03057	1.372020	66.74227	1.365775
	V	107.67203	1.458663	109.34230	1.430575	111.01324	1.401411
33	E	66.67159	1.351992	67.37658	1.346006	68.08166	1.339586
	V	109.07657	1.404539	110.71914	1.376839	112.356142	1.348180
34	E	67.99892	1.327336	68.69775	1.321175	69.392487	1.314614
	V	110.43035	1.353775	112.04565	1.326505	113.65980	1.298381
35	E	69.30268	1.303760	69.99521	1.297455	70.68725	1.290781
	V	111.73645	1.306110	113.32494	1.279299	114.991123	1.251730
36	E	70.58389	1.281203	71.26999	1.274781	71.95527	1.268019
	V	112.99776	1.261304	114.55592	1.234975	116.11950	1.207970
37	E	71.84349	1.259606	72.52308	1.253090	73.20153	1.246262
	V	114.21690	1.219138	115.75322	1.193304	117.28637	1.166870
38	E	73.08241	1.238916	73.75541	1.232327	74.42698	1.225449
	V	115.39631	1.179414	116.90731	1.154084	118.41460	1.128221
39	E	74.30149	1.219081	74.96784	1.212436	75.63251	1.205526
	V	116.53826	1.141950	118.02444	1.117127	119.50643	1.091832
40	E	75.50154	1.200053	76.16121	1.193368	76.81895	1.186439
	V	117.64484	1.106580	119.10670	1.082254	120.56396	1.057531
41	E	76.68333	1.181789	77.33629	1.175076	77.98709	1.168140
	V	118.71799	1.073152	120.15604	1.049341	121.58912	1.025160
42	E	77.84758	1.164247	78.49380	1.157518	79.13767	1.105984
	V	119.75952	1.041528	121.17426	1.018216	122.58370	0.994577
43	E	78.99497	1.147388	79.63446	1.140653	80.27140	1.133730
	V	120.77110	1.011582	122.16302	0.988760	123.54935	0.965652
44	E	80.12614	1.131175	80.75890	1.124444	81.38894	1.117539
	V	121.75430	0.983196	123.12387	0.960857	124.448761	0.938267
45	E	81.24172	1.115576	81.86776	1.108855	82.449032	1.101975
	V	122.71057	0.956265	124.05827	0.934398	125.39993	0.912312
46	E	82.34227	1.100558	82.96161	1.093853	83.57792	1.087003
	V	123.64126	0.930690	124.96756	0.909286	126.28762	0.887690
47	E	83.42836	1.086091	84.04102	1.079408	84.65051	1.072592
	V	124.54764	0.906382	125.85299	0.885428	127.15193	0.864309
48	E	84.50051	1.072147	85.10651	1.065491	85.70923	1.058714
	V	125.43090	0.883259	126.71573	0.862744	127.99401	0.842086
49	E	85.55921	1.058701	86.15858	1.052076	86.75457	1.045340
	V	126.29214	0.861243	127.55689	0.841155	128.81496	0.820946
50	E	86.60494	1.045729	87.15772	1.039138	87.78701	1.032446
	V	127.13241	0.840265	128.37748	0.820592	129.61578	0.800817
51	E	87.63815	1.033206	88.22347	1.026652	88.80702	1.020006
	V	127.95267	0.820261	129.11847	0.800991	130.39741	0.781636
52	E	88.65926	1.021112	89.22897	1.014597	89.81502	1.008000
	V	128.75384	0.801170	129.96076	0.782291	131.16075	0.763342
53	E	89.66869	1.009426	90.24192	1.002953	90.81142	0.996405
	V	129.53677	0.782937	130.7520	0.764438	131.90664	0.745882
54	E	90.66682	0.998130	91.21362	0.991700	91.79663	0.985202
	V	130.30228	0.765511	131.47258	0.747379	132.633584	0.729204
55	E	91.65402	0.987205	92.21444	0.980820	92.77100	0.974374
	V	131.05113	0.748845	132.6365	0.731070	133.34910	0.713262
56	E	92.63066	0.976635	93.14474	0.970295	93.73490	0.963901
	V	131.78403	0.732895	132.97911	0.715464	134.04711	0.698012
57	E	93.59706	0.966403	94.17485	0.960110	94.68867	0.953769
	V	132.50164	0.717619	133.61963	0.700523	134.73053	0.683414
58	E	94.55355	0.956496	95.05510	0.950250	95.63263	0.943961
	V	133.20462	0.702980	134.35084	0.686208	135.339936	0.669431
59	E	95.50045	0.946898	96.05580	0.940700	96.56709	0.934464
	V	133.89357	0.688943	134.97832	0.672484	136.05598	0.656028
60	E	96.43805	0.937597	96.97625	0.931447	97.49236	0.925264
	V	134.56904	0.675475	135.6764	0.659319	136.69916	0.643174

ECCENTRICITY M		0.64		0.65		0.66	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
61	E	97.36663	0.928580	97.88972	0.922478	98.40871	0.916348
	V	135.23159	0.662545	136.28433	0.616683	137.33000	0.630837
62	E	98.28647	0.919836	98.80351	0.943781	99.31641	0.907703
	V	135.88171	0.650125	136.91887	0.636547	137.94899	0.618991
63	E	99.19782	0.9511352	99.70885	0.905345	100.21573	0.899319
	V	136.51990	0.638187	137.54176	0.622885	138.55660	0.607609
64	E	100.10094	0.903118	100.60601	0.897160	101.10691	0.891185
	V	137.14661	0.626708	138.15343	0.611672	139.15326	0.596668
65	E	100.99606	0.895125	101.43523	0.889214	101.99020	0.883291
	V	137.76227	0.615664	138.75432	0.600886	139.73941	0.586144
66	E	101.88342	0.887363	102.37673	0.881499	102.86583	0.875627
	V	138.36730	0.605032	139.36482	0.590504	140.31542	0.576016
67	E	102.76325	0.879823	103.25073	0.874006	103.73402	0.868183
	V	138.96210	0.594793	139.92533	0.580507	140.88169	0.566264
68	E	103.63574	0.872496	104.11746	0.866725	104.59497	0.860952
	V	139.54703	0.584928	140.49620	0.570876	141.43856	0.556870
69	E	104.50112	0.865374	104.97711	0.859650	105.44889	0.853925
	V	140.12244	0.575417	141.05779	0.561592	141.98638	0.547817
70	E	105.35957	0.858449	105.82988	0.852771	106.29599	0.847094
	V	140.68869	0.566246	141.61044	0.552641	142.52546	0.539088
71	E	106.21128	0.851715	106.67596	0.846082	107.13644	0.840453
	V	141.24609	0.557397	142.15444	0.544005	143.05613	0.530667
72	E	107.05645	0.845165	107.51553	0.839575	107.97043	0.833993
	V	141.79494	0.548855	142.69011	0.535670	143.57867	0.522541
73	E	107.89524	0.838791	108.34878	0.833245	108.79814	0.827709
	V	142.33555	0.540608	143.21773	0.527623	144.09337	0.821593
74	E	108.72782	0.832587	109.17586	0.827085	109.61973	0.821116
	V	142.86819	0.532641	143.73758	0.519850	144.60048	0.507118
75	E	109.55437	0.826548	109.99695	0.821088	110.43538	0.807578
	V	143.39313	0.524542	144.24992	0.512339	145.10028	0.805952
76	E	110.37504	0.820667	110.81220	0.815249	111.24522	0.809846
	V	143.91063	0.517499	144.75500	0.505078	145.59300	0.804203
77	E	111.18998	0.814940	111.62176	0.809563	112.04942	0.805643
	V	144.42093	0.510301	145.25306	0.489058	146.07888	0.805877
78	E	111.99934	0.809361	112.42579	0.804025	112.84813	0.798707
	V	144.92427	0.503338	145.74432	0.491266	146.55814	0.792559
79	E	112.80327	0.803925	113.22442	0.798629	113.64148	0.793352
	V	145.42087	0.496600	146.22902	0.484694	147.03099	0.472854
80	E	113.60189	0.798628	114.01779	0.793371	114.42962	0.788135
	V	145.91095	0.490077	146.70735	0.478333	147.49765	0.466655
81	E	114.39536	0.793465	114.80604	0.788246	115.21267	0.783050
	V	146.39470	0.483760	147.17953	0.472173	147.95830	0.460653
82	E	115.18379	0.788431	115.58929	0.783251	116.41314	0.778094
	V	146.87235	0.477642	147.64573	0.466207	148.41314	0.454840
83	E	115.96731	0.783523	116.36767	0.778380	116.76402	0.773261
	V	147.34406	0.471713	148.10616	0.460427	148.86235	0.449208
84	E	116.74605	0.776737	117.14130	0.773630	117.53257	0.768549
	V	147.81003	0.465968	148.56098	0.454825	149.30610	0.443750
85	E	117.52012	0.774068	117.91030	0.768998	118.29653	0.763954
	V	148.27043	0.460398	149.01038	0.449394	149.74456	0.438459
86	E	118.28963	0.769514	118.67477	0.764479	119.05600	0.759471
	V	148.72542	0.454996	149.45451	0.444128	150.17789	0.433329
87	E	119.05470	0.765071	119.43484	0.760070	119.81110	0.755098
	V	149.17518	0.449757	149.89353	0.439021	150.60624	0.428353
88	E	119.81544	0.760736	120.19061	0.755769	120.56193	0.750832
	V	149.61985	0.444674	150.32759	0.434065	151.02977	0.423526
89	E	120.57194	0.756504	120.94218	0.751571	121.30860	0.746668
	V	150.05960	0.439741	150.75685	0.429257	151.44861	0.418842
90	E	121.32432	0.752375	121.68966	0.747474	122.05120	0.742605
	V	150.49455	0.434953	151.18144	0.424589	151.86290	0.414295

ECCENTRICITY M		Q ⁶⁴				Q ⁶⁵				Q ⁶⁶			
		1st	2nd	1st	2nd	1st	2nd	1st	2nd	1st	2nd	1st	2nd
91	E	122.07266	0.748343	122.4313	0.04032	122.4313	0.743475	122.78984	0.003999	122.78984	0.738638	0.003967	0.003967
	V	150.92485	0.430305	151.60150	0.004648	151.60150	0.420058	152.27278	0.004531	152.27278	0.409881	0.004414	0.004414
92	E	122.81707	0.744408	123.17270	0.003935	123.17270	0.739571	123.52461	0.003904	123.52461	0.734766	0.003872	0.003872
	V	151.35064	0.425791	152.01715	0.004514	152.01715	0.415658	152.67838	0.004400	152.67838	0.405595	0.004286	0.004286
93	E	123.55763	0.740565	123.92846	0.003843	123.92846	0.735759	124.25559	0.003812	124.25559	0.730986	0.003780	0.003780
	V	151.77205	0.421406	152.41854	0.004385	152.41854	0.411385	153.07981	0.004273	153.07981	0.401433	0.004162	0.004162
94	E	124.29445	0.736813	124.64050	0.003752	124.64050	0.732038	124.98289	0.003721	124.98289	0.727236	0.003690	0.003690
	V	152.18920	0.417147	152.85577	0.004259	152.85577	0.407234	153.47720	0.004151	153.47720	0.397389	0.004044	0.004044
95	E	125.02760	0.733149	125.36890	0.003664	125.36890	0.728403	125.70658	0.003635	125.70658	0.723692	0.003604	0.003604
	V	152.60220	0.413009	153.25897	0.004138	153.25897	0.403200	153.87066	0.004034	153.87066	0.393461	0.003928	0.003928
96	E	125.75717	0.729571	126.06376	0.003578	126.06376	0.724854	126.42675	0.003549	126.42675	0.720172	0.003520	0.003520
	V	153.01119	0.408987	153.65825	0.004022	153.65825	0.399281	154.26031	0.003919	154.26031	0.389643	0.003818	0.003818
97	E	126.48324	0.726076	126.81515	0.003495	126.81515	0.721388	127.14369	0.003466	127.14369	0.716735	0.003437	0.003437
	V	153.41627	0.405078	154.03372	0.003909	154.03372	0.395471	154.64624	0.003810	154.64624	0.385933	0.003710	0.003710
98	E	127.20591	0.722663	127.5315	0.003413	127.5315	0.718002	127.85686	0.003386	127.85686	0.713378	0.003357	0.003357
	V	153.81755	0.401278	154.4549	0.003800	154.4549	0.391768	155.02856	0.003703	155.02856	0.382326	0.003607	0.003607
99	E	127.92524	0.719328	128.24784	0.003335	128.24784	0.714695	128.56696	0.003307	128.56696	0.710099	0.003279	0.003279
	V	154.21513	0.397584	154.8366	0.003694	154.8366	0.388167	155.40738	0.003601	155.40738	0.378819	0.003503	0.003503
100	E	128.64131	0.716071	128.91931	0.003257	128.91931	0.711465	129.27386	0.003230	129.27386	0.706896	0.003203	0.003203
	V	154.60912	0.393991	155.14832	0.003593	155.14832	0.384666	155.78279	0.003501	155.78279	0.375409	0.003410	0.003410
101	E	129.35420	0.712889	129.66762	0.003182	129.66762	0.708309	129.97762	0.003156	129.97762	0.703767	0.003129	0.003129
	V	154.99962	0.390497	155.51959	0.003494	155.51959	0.381261	156.15468	0.003405	156.15468	0.372093	0.003316	0.003316
102	E	130.06398	0.709780	130.37284	0.003109	130.37284	0.705226	130.67834	0.003083	130.67834	0.700710	0.003057	0.003057
	V	155.38672	0.387099	155.91753	0.003398	155.91753	0.377949	156.52375	0.003312	156.52375	0.368868	0.003225	0.003225
103	E	130.77072	0.706743	131.07506	0.003037	131.07506	0.702214	131.37606	0.003012	131.37606	0.697723	0.002987	0.002987
	V	155.77051	0.383793	156.31226	0.003306	156.31226	0.374728	156.88948	0.003221	156.88948	0.365730	0.003138	0.003138
104	E	131.47449	0.703775	131.77433	0.002968	131.77433	0.699271	132.07086	0.002943	132.07086	0.694806	0.002917	0.002917
	V	156.15109	0.380577	156.70386	0.003216	156.70386	0.371593	157.25216	0.003135	157.25216	0.362678	0.003052	0.003052
105	E	132.17537	0.700876	132.47072	0.002899	132.47072	0.696396	132.76282	0.002875	132.76282	0.691955	0.002851	0.002851
	V	156.52853	0.377447	157.07240	0.003130	157.07240	0.368544	157.61187	0.003049	157.61187	0.359708	0.002970	0.002970
106	E	132.87341	0.698043	133.14431	0.002833	133.14431	0.693587	133.45199	0.002809	133.45199	0.689178	0.002785	0.002785
	V	156.90294	0.374402	157.41798	0.003045	157.41798	0.365577	157.96869	0.002967	157.96869	0.356818	0.002890	0.002890
107	E	133.58869	0.695275	133.8515	0.002768	133.8515	0.690843	134.13844	0.002744	134.13844	0.686449	0.002721	0.002721
	V	157.27438	0.371439	157.80066	0.002963	157.80066	0.362689	158.32229	0.002888	158.32229	0.354006	0.002812	0.002812
108	E	134.26126	0.692571	134.54331	0.002704	134.54331	0.688161	134.82223	0.002682	134.82223	0.683791	0.002658	0.002658
	V	157.64293	0.368555	158.16055	0.002884	158.16055	0.359879	158.67396	0.002810	158.67396	0.351270	0.002736	0.002736
109	E	134.95119	0.689929	135.21886	0.002642	135.21886	0.685541	135.50342	0.002620	135.50342	0.681193	0.002598	0.002598
	V	158.00868	0.365748	158.5769	0.002807	158.5769	0.357144	159.02237	0.002735	159.02237	0.348606	0.002664	0.002664
110	E	135.63854	0.687347	135.91184	0.002582	135.91184	0.682981	136.18208	0.002560	136.18208	0.678656	0.002537	0.002537
	V	158.37169	0.363016	158.87217	0.002732	158.87217	0.354482	159.36858	0.002662	159.36858	0.346013	0.002593	0.002593
111	E	136.32336	0.684825	136.59232	0.002522	136.59232	0.680480	136.85826	0.002501	136.85826	0.676176	0.002480	0.002480
	V	158.73205	0.360357	159.24406	0.002659	159.24406	0.351891	159.71207	0.002591	159.71207	0.343490	0.002523	0.002523
112	E	137.00572	0.682361	137.27036	0.002464	137.27036	0.678037	137.53201	0.002443	137.53201	0.673754	0.002422	0.002422
	V	159.08982	0.357768	159.57343	0.002589	159.57343	0.349368	160.05310	0.002523	160.05310	0.341033	0.002457	0.002457
113	E	137.68568	0.679954	137.94600	0.002407	137.94600	0.675650	138.20340	0.002387	138.20340	0.671388	0.002366	0.002366
	V	159.45507	0.355248	159.91034	0.002520	159.91034	0.346913	160.39175	0.002455	160.39175	0.338642	0.002391	0.002391
114	E	138.36328	0.677602	138.61932	0.002352	138.61932	0.673319	138.87287	0.002331	138.87287	0.669077	0.002311	0.002311
	V	159.79786	0.352795	160.24487	0.002453	160.24487	0.344522	160.72806	0.002391	160.72806	0.336314	0.002328	0.002328
115	E	139.03858	0.675305	139.29037	0.002297	139.29037	0.671041	139.53929	0.002278	139.53929	0.666819	0.002258	0.002258
	V	160.14827	0.354047	160.60706	0.002388	160.60706	0.342196	161.06211	0.002326	161.06211	0.334048	0.002266	0.002266
116	E	139.71164	0.673061	139.96918	0.002244	139.96918	0.668816	140.20391	0.002225	140.20391	0.664613	0.002206	0.002206
	V	160.49635	0.348082	160.94699	0.002325	160.94699	0.339930	161.38429	0.002266	161.38429	0.331842	0.002206	0.002206
117	E	140.38251	0.670869	140.61582	0.002192	140.61582	0.666643	140.86637	0.002173	140.86637	0.662459	0.002154	0.002154
	V	160.84217	0.345819	161.28472	0.002263	161.28472	0.337725	161.72365	0.002205	161.72365	0.329695	0.002147	0.002147
118	E	141.05124	0.668729	141.27034	0.002140	141.27034	0.664521	141.52672	0.002122	141.52672	0.660356	0.002103	0.002103
	V	161.18579	0.343616	161.61029	0.002203	161.61029	0.335579	162.05125	0.002146	162.05125	0.327604	0.002091	0.002091
119	E	141.71788	0.666639	141.91280	0.002090	141.91280	0.662449	142.18502	0.002072	142.18502	0.658302	0.002054	0.002054
	V	161.52726	0.341472	161.91378	0.002144	161.91378	0.333489	162.37682	0.002090	162.37682	0.325570	0.002034	0.002034
120	E	142.38248	0.664598	142.61322	0.002041	142.61322	0.660426	142.84412	0.002023	142.84412	0.656296	0.002006	0.002006
	V	161.86665	0.339384	162.28524	0.002088	162.28524	0.331455	162.70041	0.002034	162.70041	0.323589	0.001981	0.001981

FCCENTRICITY M		0.64			0.65			0.66		
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.
121	E	143.04508	0.662606	0.001992	143.27167	0.658451	0.001975	143.49566	0.654338	0.001958
122	V	142.20400	0.337352	0.002032	162.61471	0.329475	0.001980	163.02207	0.329475	0.001928
123	E	143.70575	0.660661	0.001945	143.92819	0.656522	0.001929	144.14808	0.652427	0.001911
124	V	142.53937	0.333375	0.001977	162.94226	0.327548	0.001927	163.34186	0.319784	0.001877
125	E	144.36451	0.658762	0.001899	144.58283	0.654640	0.001882	144.79864	0.650561	0.001866
126	V	142.87282	0.333450	0.001925	163.26793	0.325673	0.001875	163.65981	0.317958	0.001826
127	E	145.02142	0.656909	0.001853	145.23564	0.652803	0.001837	145.44738	0.648740	0.001821
128	V	143.20440	0.331577	0.001873	163.59178	0.323848	0.001825	163.97599	0.316181	0.001777
129	E	145.67652	0.655102	0.001807	145.88665	0.651011	0.001792	146.09435	0.646964	0.001776
130	V	146.53415	0.329755	0.001822	163.91385	0.322072	0.001776	164.29045	0.314452	0.001729
131	E	146.32986	0.653338	0.001764	146.53591	0.649263	0.001748	146.73958	0.645231	0.001733
132	V	143.86214	0.321982	0.001773	164.23420	0.320345	0.001727	164.60321	0.312769	0.001683
133	E	146.98147	0.651618	0.001720	147.18347	0.647558	0.001705	147.38312	0.643540	0.001691
134	V	144.18839	0.326257	0.001725	164.55286	0.318664	0.001681	164.91435	0.311132	0.001637
135	E	147.63141	0.649840	0.001678	147.82936	0.645894	0.001664	148.02501	0.641892	0.001648
136	V	148.27972	0.324579	0.001678	164.86989	0.317029	0.001635	165.22389	0.309540	0.001592
137	E	148.83592	0.648305	0.001632	148.87363	0.644273	0.001621	149.04120	0.640285	0.001607
138	V	148.92643	0.646710	0.001595	165.18533	0.315439	0.001590	165.53188	0.307992	0.001548
139	E	148.92643	0.646710	0.001595	149.11633	0.642692	0.001581	149.30401	0.638718	0.001567
140	V	148.92643	0.646710	0.001595	165.49923	0.313894	0.001545	165.83837	0.306487	0.001505
141	E	149.57159	0.643156	0.001554	149.75748	0.641152	0.001540	149.94120	0.637191	0.001527
142	V	149.57159	0.643156	0.001554	165.81162	0.312391	0.001503	166.14339	0.305023	0.001464
143	E	150.21523	0.643643	0.001513	150.39713	0.639651	0.001501	150.57691	0.635704	0.001487
144	V	150.21523	0.643643	0.001513	166.12255	0.310930	0.001461	166.44699	0.303601	0.001422
145	E	150.85740	0.642168	0.001475	151.03532	0.638190	0.001461	151.21116	0.634255	0.001449
146	V	151.49813	0.640733	0.001435	166.43206	0.309511	0.001419	166.74921	0.302219	0.001382
147	E	151.49813	0.640733	0.001435	151.67209	0.636766	0.001424	151.84401	0.632844	0.001411
148	V	151.49813	0.640733	0.001435	166.74019	0.308132	0.001379	167.05009	0.300876	0.001343
149	E	152.13746	0.639335	0.001398	152.30747	0.635381	0.001385	152.47548	0.631471	0.001373
150	V	152.13746	0.639335	0.001398	167.04698	0.306793	0.001339	167.34966	0.299571	0.001305
151	E	152.77544	0.637975	0.001360	152.94150	0.634033	0.001348	153.10561	0.630135	0.001336
152	V	152.77544	0.637975	0.001360	167.35247	0.305492	0.001301	167.64796	0.298305	0.001266
153	E	153.41209	0.636652	0.001323	153.57422	0.632722	0.001311	153.73445	0.628835	0.001300
154	V	153.41209	0.636652	0.001323	167.65670	0.304230	0.001262	167.94504	0.297076	0.001229
155	E	154.04746	0.635366	0.001295	154.20567	0.631447	0.001275	154.36202	0.627571	0.001264
156	V	154.04746	0.635366	0.001295	167.95971	0.303005	0.001225	168.24092	0.295883	0.001193
157	E	154.68157	0.634116	0.001250	154.83588	0.630208	0.001239	154.98836	0.626343	0.001228
158	V	154.68157	0.634116	0.001250	168.26153	0.301817	0.001188	168.53565	0.294726	0.001157
159	E	155.31448	0.632901	0.001215	155.46488	0.629004	0.001204	155.61351	0.625150	0.001193
160	V	155.31448	0.632901	0.001215	168.56219	0.300665	0.001152	168.82925	0.293604	0.001122
161	E	155.94620	0.631722	0.001179	156.09272	0.627834	0.001170	156.23750	0.623991	0.001159
162	V	155.94620	0.631722	0.001179	168.86174	0.299548	0.001117	169.12177	0.292516	0.001088
163	E	156.57677	0.630577	0.001145	156.71942	0.626700	0.001134	156.86037	0.622866	0.001125
164	V	156.57677	0.630577	0.001145	169.16020	0.298466	0.001082	169.41323	0.291463	0.001053
165	E	157.20624	0.629467	0.001110	157.34501	0.625599	0.001101	157.48214	0.621775	0.001090
166	V	157.20624	0.629467	0.001110	169.45762	0.297419	0.001047	169.70367	0.290443	0.001020
167	E	157.83463	0.628390	0.001077	157.96955	0.624532	0.001067	158.10286	0.620717	0.001058
168	V	157.83463	0.628390	0.001077	169.75403	0.296405	0.001014	169.99313	0.289455	0.001038
169	E	158.46198	0.627347	0.001043	158.59304	0.623498	0.001034	158.72255	0.619693	0.001024
170	V	158.46198	0.627347	0.001043	170.04945	0.295424	0.000981	170.28163	0.288900	0.000955
171	E	159.08832	0.626337	0.001010	159.21554	0.622497	0.001001	159.34125	0.618700	0.000993
172	V	159.08832	0.626337	0.001010	170.34393	0.294476	0.000948	170.56920	0.287577	0.000923
173	E	159.71368	0.625360	0.000977	159.83707	0.621528	0.000969	159.95899	0.617740	0.000950
174	V	159.71368	0.625360	0.000977	170.63749	0.293560	0.000916	170.85589	0.286685	0.000892
175	E	160.33809	0.624415	0.000945	160.45766	0.620591	0.000937	160.67581	0.616811	0.000899
176	V	160.33809	0.624415	0.000945	170.93016	0.292676	0.000884	171.14171	0.285824	0.000861
177	E	160.96159	0.623502	0.000913	161.07735	0.619686	0.000905	161.19172	0.615914	0.000897
178	V	160.96159	0.623502	0.000913	171.22199	0.291823	0.000853	171.42671	0.284993	0.000831
179	E	161.58422	0.622621	0.000881	161.69616	0.618812	0.000874	161.80677	0.615049	0.000865
180	V	161.58422	0.622621	0.000881	171.51299	0.291001	0.000822	171.71090	0.284192	0.000801

ECCENTRICITY		Q_{56}	1ST DIF.	2ND DIF.	Q_{56}	1ST DIF.	2ND DIF.	Q_{66}	1ST DIF.	2ND DIF.
151	E	162.20599	0.621771	0.000850	162.31413	0.617970	0.000842	162.42098	0.614213	0.000836
152	V	171.61049	0.297053	0.000813	171.80320	0.290209	0.000792	171.99432	0.283421	0.000771
153	V	162.82694	0.620952	0.000819	162.93129	0.617158	0.000812	163.03439	0.613409	0.000804
154	V	171.90676	0.296271	0.000782	172.09264	0.289447	0.000762	172.27700	0.282679	0.000742
155	E	163.44710	0.620164	0.000788	163.54766	0.616377	0.000781	163.64735	0.612635	0.000774
156	V	172.20228	0.295519	0.000752	172.38136	0.288715	0.000732	172.55897	0.281966	0.000713
157	E	164.06651	0.619406	0.000758	164.16329	0.615626	0.000751	164.25891	0.611890	0.000745
158	V	172.49708	0.294798	0.000721	172.66937	0.288011	0.000704	172.84025	0.281281	0.000685
159	E	164.68518	0.618678	0.000692	164.77819	0.614905	0.000674	164.87009	0.611175	0.000667
160	V	172.79118	0.294106	0.000697	172.95671	0.287337	0.000674	173.12087	0.280624	0.000657
161	E	165.30317	0.617981	0.000697	165.39241	0.614213	0.000692	165.48058	0.610490	0.000685
162	V	173.08462	0.293443	0.000663	173.24340	0.286691	0.000646	173.40087	0.279995	0.000629
163	E	165.92048	0.617313	0.000668	166.00596	0.613552	0.000661	166.09042	0.609834	0.000601
164	V	173.37743	0.292809	0.000634	173.52947	0.286074	0.000617	173.68026	0.279394	0.000601
165	E	166.53716	0.616675	0.000638	166.61888	0.612919	0.000633	166.69962	0.609207	0.000627
166	V	173.66964	0.292204	0.000605	173.81496	0.285484	0.000590	173.95908	0.278820	0.000574
167	E	167.15322	0.616066	0.000609	167.23119	0.612315	0.000604	167.30823	0.608609	0.000598
168	V	173.96126	0.291627	0.000577	174.09988	0.284922	0.000562	174.23735	0.278272	0.000548
169	E	167.76871	0.615486	0.000580	167.83427	0.611760	0.000575	167.91627	0.608039	0.000570
170	V	174.54290	0.290557	0.000551	174.65815	0.283880	0.000546	174.79236	0.277257	0.000541
171	E	168.99805	0.614413	0.000522	169.05480	0.610676	0.000518	169.13075	0.606985	0.000513
172	V	174.83296	0.290064	0.000493	174.95155	0.283399	0.000481	175.06915	0.276789	0.000468
173	E	169.61197	0.613919	0.000494	169.67499	0.610187	0.000489	169.73725	0.606649	0.000486
174	V	175.12256	0.289598	0.000466	175.21449	0.282945	0.000454	175.34550	0.276347	0.000442
175	E	170.22543	0.613453	0.000466	170.28472	0.609725	0.000462	170.34329	0.606042	0.000457
176	V	175.41172	0.289159	0.000439	175.5701	0.282517	0.000428	175.62143	0.275930	0.000417
177	E	170.83844	0.613016	0.000437	170.8401	0.609292	0.000433	170.94891	0.605612	0.000430
178	V	175.70047	0.288747	0.000412	175.79912	0.282116	0.000401	175.89697	0.275539	0.000391
179	E	171.45105	0.612607	0.000409	171.50290	0.608896	0.000406	171.55412	0.605210	0.000402
180	V	175.98883	0.288361	0.000386	176.08086	0.281760	0.000376	176.17214	0.275173	0.000366
181	E	172.06328	0.612225	0.000382	172.1140	0.608508	0.000378	172.15895	0.604836	0.000374
182	V	176.27683	0.288002	0.000353	176.36225	0.281350	0.000350	176.44697	0.274833	0.000348
183	E	172.67515	0.611872	0.000332	172.7956	0.608158	0.000334	172.76344	0.604488	0.000336
184	V	176.56450	0.287670	0.000332	176.66332	0.281066	0.000323	176.72149	0.274517	0.000316
185	E	173.28669	0.611546	0.000326	173.3740	0.607835	0.000323	173.36761	0.604168	0.000320
186	V	176.85186	0.287363	0.000307	176.97409	0.280768	0.000298	176.99571	0.274226	0.000291
187	E	173.89794	0.611247	0.000299	173.97493	0.607539	0.000296	173.97148	0.603875	0.000293
188	V	177.13895	0.287083	0.000280	177.20458	0.280494	0.000274	177.26967	0.273960	0.000266
189	E	174.50892	0.610976	0.000271	174.54221	0.607270	0.000269	174.57509	0.603608	0.000267
190	V	177.42577	0.286828	0.000255	177.44483	0.280246	0.000248	177.54339	0.273719	0.000241
191	E	175.11965	0.610733	0.000243	175.14923	0.607029	0.000241	175.17846	0.603369	0.000239
192	V	177.71237	0.286600	0.000228	177.76485	0.280023	0.000223	177.81689	0.273501	0.000218
193	E	175.73017	0.610516	0.000217	175.75605	0.606814	0.000215	175.78162	0.603157	0.000212
194	V	177.99877	0.286397	0.000203	178.04468	0.279826	0.000197	178.09020	0.273309	0.000192
195	E	176.34049	0.610327	0.000189	176.36267	0.606627	0.000187	176.38459	0.602971	0.000186
196	V	178.28499	0.286219	0.000178	178.32433	0.279653	0.000173	178.36334	0.273140	0.000169
197	E	176.95066	0.610165	0.000162	176.96914	0.606466	0.000161	176.98740	0.602812	0.000159
198	V	178.57106	0.286067	0.000152	178.60383	0.279505	0.000148	178.63634	0.272996	0.000144
199	E	177.56069	0.610030	0.000135	177.57547	0.606332	0.000134	177.59008	0.272679	0.000133
200	V	178.85700	0.285941	0.000126	178.88321	0.279381	0.000124	178.90922	0.272876	0.000120
201	E	178.17061	0.609922	0.000108	178.18170	0.606225	0.000107	178.19265	0.272573	0.000106
202	V	179.14284	0.285840	0.000101	179.16250	0.279283	0.000098	179.18200	0.272780	0.000096
203	E	178.78045	0.609841	0.000081	178.78784	0.606145	0.000080	178.79515	0.272459	0.000080
204	V	179.42860	0.285764	0.000076	179.44171	0.279209	0.000074	179.45470	0.272708	0.000072
205	E	179.59024	0.609788	0.000053	179.59394	0.606092	0.000053	179.59759	0.272441	0.000052
206	V	179.71431	0.285713	0.000051	179.72087	0.279160	0.000049	179.72737	0.272660	0.000048
207	E	180.00000	0.609761	0.000027	180.00000	0.606065	0.000027	180.00000	0.602414	0.000027
208	V	180.00000	0.285688	0.000025	180.00000	0.279135	0.000025	180.00000	0.272636	0.000024

ECCENTRICITY

		18 ⁶⁷	2ND DIF.	18 ⁶⁸	2ND DIF.	18 ⁶⁹	2ND DIF.
31	E	66.09525	1.386734	66.81441	1.379735	67.53360	1.372284
	V	111.31287	1.427634	113.01141	1.395843	114.71487	1.363101
32	E	67.45432	1.359076	68.16635	1.351944	68.87800	1.344399
	V	112.68412	1.371251	114.55428	1.340174	116.02313	1.308263
33	E	68.78707	1.332750	69.42517	1.325516	70.19591	1.317907
	V	114.00276	1.318639	115.64252	1.288290	117.28034	1.257209
34	E	70.09474	1.307670	70.79223	1.300363	71.48862	1.292712
	V	115.27224	1.269475	116.68243	1.239857	118.48994	1.247612
35	E	71.37850	1.283756	72.68863	1.276398	72.75734	1.268727
	V	116.49570	1.223467	118.77701	1.194577	119.46506	1.165126
36	E	72.63943	1.260395	73.32218	1.253546	74.00322	1.245871
	V	117.67606	1.180352	119.42291	1.152183	120.77859	1.123523
37	E	73.87857	1.239137	74.55391	1.231734	75.22729	1.224070
	V	118.81595	1.139895	120.34163	1.112434	121.86313	1.084545
38	E	75.09687	1.218301	75.76481	1.210897	76.43054	1.203256
	V	119.91783	1.101880	121.41674	1.075114	122.91111	1.047974
39	E	76.25524	1.198367	76.95578	1.190975	77.61391	1.183366
	V	120.98395	1.066116	122.45677	1.040027	123.92472	1.013612
40	E	77.47452	1.179281	78.12769	1.171911	78.77825	1.164342
	V	122.01637	1.032426	123.46376	1.006966	124.90600	0.981284
41	E	78.63551	1.160994	79.28135	1.153653	79.92438	1.146133
	V	123.01703	1.000654	124.43963	0.975863	125.85683	0.950829
42	E	79.77897	1.143459	80.481750	1.136155	81.05307	1.128687
	V	123.98768	0.970653	125.38611	0.946483	126.77893	0.922104
43	E	80.90561	1.126632	81.53687	1.119371	82.16503	1.111961
	V	124.92598	0.942295	126.30483	0.918725	127.67391	0.894976
44	E	82.01608	1.110474	82.64013	1.103261	83.26094	1.095912
	V	125.84544	0.915460	127.19730	0.892470	128.54324	0.869327
45	E	83.11103	1.094948	83.72792	1.087786	84.34144	1.080502
	V	126.73548	0.890039	128.05491	0.867608	129.38829	0.845050
46	E	84.19104	1.080019	84.93083	1.072912	85.40714	1.065694
	V	127.60141	0.865933	128.93895	0.844043	130.21033	0.822046
47	E	85.25670	1.065654	85.85944	1.058605	86.45859	1.051456
	V	128.44446	0.843052	129.73064	0.821683	131.01056	0.800226
48	E	86.30853	1.051825	86.93427	1.044836	87.49635	1.037756
	V	129.26577	0.821312	130.53108	0.800446	131.79007	0.779508
49	E	87.34703	1.038503	87.93585	1.031575	88.52092	1.024565
	V	130.06641	0.800639	131.31134	0.780256	132.54988	0.759818
50	E	88.37269	1.025662	88.95465	1.018796	89.53277	1.011858
	V	130.84737	0.780961	132.07238	0.761044	133.29097	0.741086
51	E	89.38597	1.013278	89.96112	1.006475	90.53238	0.999608
	V	131.60959	0.762215	132.81513	0.742748	134.01422	0.723251
52	E	90.38729	1.001327	90.95711	0.994589	91.52017	0.987792
	V	132.35393	0.744342	133.50044	0.725307	134.72047	0.706254
53	E	91.37708	0.989790	91.93883	0.983116	92.49656	0.976390
	V	133.08121	0.721287	134.24911	0.708669	135.41052	0.690042
54	E	92.35573	0.978645	92.90886	0.972035	93.46194	0.965360
	V	133.79222	0.711001	134.96189	0.692784	136.08508	0.674567
55	E	93.32360	0.967874	93.87219	0.961328	94.41669	0.954743
	V	134.48765	0.695436	135.6950	0.677606	136.74487	0.659784
56	E	94.28106	0.957460	94.87317	0.950978	95.36115	0.944462
	V	135.16820	0.680551	136.281259	0.663093	137.39092	0.645650
57	E	95.22845	0.947386	95.76413	0.940967	96.29567	0.934520
	V	135.83451	0.666305	136.91180	0.649206	138.02255	0.632128
58	E	96.16609	0.937636	96.65441	0.931281	97.22057	0.924901
	V	136.48717	0.652661	137.66771	0.635909	138.64183	0.619182
59	E	97.09428	0.928197	97.61732	0.921904	98.13616	0.915591
	V	137.12675	0.639586	138.15087	0.623167	139.24861	0.606779
60	E	98.01334	0.919054	98.55014	0.912823	99.04273	0.906575
	V	137.75380	0.627048	138.80182	0.610950	139.84349	0.594888

ECCENTRICITY M		0.67		2ND DIF.	0.68		2ND DIF.	0.69		2ND DIF.
		1ST DIF.			1ST DIF.			1ST DIF.		
61	E	98.92353	0.910195	0.008859	99.43417	0.904024	0.008799	99.94058	0.897841	0.008734
62	V	138.36882	0.615017	0.012031	139.40105	0.599229	0.011721	140.42698	0.583481	0.011407
63	V	99.82514	0.901607	0.008588	100.32966	0.895496	0.008528	100.82995	0.889377	0.008464
64	V	138.97229	0.603466	0.011551	139.98003	0.587977	0.011252	140.99951	0.572531	0.010950
65	V	100.71842	0.893279	0.008328	101.21689	0.887728	0.008268	101.71112	0.881171	0.008206
66	V	139.56466	0.592369	0.011097	140.56620	0.577169	0.010808	141.56152	0.562015	0.010516
67	E	101.60362	0.885200	0.008079	102.09610	0.879207	0.008021	102.58434	0.873212	0.007959
68	V	140.14636	0.581702	0.010667	141.13298	0.566781	0.010388	142.11343	0.551908	0.010107
69	E	102.48098	0.877360	0.007840	102.96752	0.871425	0.007782	103.44983	0.865490	0.007722
70	V	140.71780	0.571444	0.010258	141.68917	0.555791	0.009990	142.63562	0.542189	0.009719
71	V	103.35073	0.869749	0.007611	103.83139	0.863871	0.007554	104.30782	0.857995	0.007495
72	V	141.27937	0.561573	0.009871	142.23695	0.547179	0.009612	143.18846	0.532839	0.009350
73	V	104.21308	0.862359	0.007390	104.68793	0.856536	0.007335	105.15854	0.850718	0.007277
74	V	141.83144	0.552069	0.009590	142.77488	0.537927	0.009252	143.71230	0.523839	0.009000
75	V	105.06826	0.855180	0.007179	105.53734	0.849411	0.007125	106.00219	0.843650	0.007068
76	V	142.37436	0.542916	0.009153	143.30389	0.529015	0.008912	144.22747	0.515171	0.008668
77	E	105.91647	0.848204	0.006976	106.37983	0.842489	0.006922	106.83897	0.836784	0.006866
78	V	142.90845	0.534094	0.008822	143.82432	0.520428	0.008587	144.73429	0.508819	0.008352
79	V	106.75789	0.841423	0.006781	107.21559	0.835761	0.006728	107.66908	0.830111	0.006673
80	V	107.59272	0.834831	0.006592	108.04481	0.829221	0.006540	108.49271	0.823624	0.006487
81	V	143.95143	0.517386	0.008204	144.84053	0.504165	0.007984	145.72406	0.491003	0.007765
82	V	108.42114	0.828420	0.006411	108.86767	0.822861	0.006360	109.31002	0.817316	0.006308
83	V	144.46090	0.509470	0.007916	145.33709	0.496460	0.007705	146.20757	0.483511	0.007492
84	E	109.24333	0.822184	0.006236	109.68434	0.816674	0.006187	110.12120	0.811181	0.006135
85	V	144.96273	0.501828	0.007642	145.82611	0.489023	0.007437	146.69385	0.476279	0.007232
86	V	110.05944	0.816116	0.006068	110.49500	0.810854	0.006020	110.92642	0.805212	0.005969
87	V	145.45717	0.494448	0.007380	146.30795	0.481940	0.007183	147.15314	0.469295	0.005894
88	V	110.86965	0.810210	0.005906	111.29979	0.804796	0.005858	111.72582	0.799402	0.005810
89	V	145.94449	0.487317	0.007131	146.78286	0.474901	0.006939	147.61569	0.462548	0.006747
90	V	111.67411	0.804460	0.005750	112.09889	0.799093	0.005703	112.51957	0.793748	0.005654
91	E	146.42492	0.480425	0.006892	147.25105	0.468194	0.006707	148.07172	0.456028	0.006520
92	V	112.47297	0.798861	0.005599	112.89243	0.789354	0.005552	113.30781	0.788242	0.005506
93	V	146.89868	0.473762	0.006663	147.71276	0.466170	0.006484	148.52144	0.449723	0.006305
94	E	113.26638	0.793409	0.005452	113.68056	0.788133	0.005408	114.09069	0.782881	0.005361
95	V	147.36600	0.467316	0.006446	148.16820	0.455439	0.006271	148.99507	0.443626	0.006097
96	V	114.05448	0.788097	0.005312	114.46343	0.782865	0.005268	114.86835	0.777658	0.005223
97	V	147.82708	0.461080	0.006236	148.61757	0.449371	0.006068	149.40280	0.437727	0.005899
98	V	114.83740	0.782922	0.005175	115.24116	0.777733	0.005132	115.64092	0.772570	0.005088
99	V	148.28212	0.455044	0.006036	149.06107	0.443498	0.005873	149.83482	0.432018	0.005709
100	V	115.61528	0.777878	0.005044	116.01389	0.772731	0.005002	116.40853	0.767612	0.004958
101	V	148.73132	0.462920	0.005844	149.49888	0.437813	0.005685	150.26130	0.426490	0.005528
102	E	116.38824	0.772962	0.004916	116.78175	0.767857	0.004874	117.17131	0.762780	0.004832
103	V	149.17486	0.443540	0.005660	149.93119	0.432306	0.005507	150.68244	0.421137	0.005353
104	V	117.15641	0.768169	0.004793	117.54485	0.763104	0.004753	117.92938	0.758069	0.004711
105	V	149.61292	0.438057	0.005483	150.35816	0.426971	0.005335	151.09839	0.415951	0.005186
106	V	117.91990	0.763496	0.004673	118.30332	0.758471	0.004633	118.68285	0.753475	0.005094
107	V	150.04566	0.432743	0.005314	150.77996	0.421802	0.005169	151.59532	0.410926	0.005025
108	V	118.67884	0.758938	0.004558	119.05727	0.753952	0.004519	119.43185	0.748996	0.004479
109	V	150.47325	0.427592	0.005151	151.19675	0.416791	0.005011	151.91537	0.406055	0.004471
110	V	119.43334	0.754493	0.004445	119.80682	0.749545	0.004407	120.17648	0.744628	0.004368
111	V	150.89585	0.422597	0.004935	151.60868	0.411932	0.004859	152.31671	0.401332	0.004323
112	E	120.18349	0.750156	0.004337	120.55208	0.745245	0.004300	120.91684	0.740366	0.004262
113	V	151.31360	0.417753	0.004844	152.01590	0.407220	0.004712	152.71346	0.396751	0.004581
114	V	120.92942	0.745925	0.004231	121.29311	0.741051	0.004194	121.65305	0.736209	0.004157
115	V	151.72665	0.413054	0.004699	152.41855	0.402649	0.004571	153.10577	0.392308	0.004443
116	V	121.67121	0.741797	0.004128	122.03007	0.736957	0.004094	122.38820	0.732152	0.004057
117	E	152.13515	0.408494	0.004560	152.81677	0.398213	0.004436	153.49376	0.387996	0.004312
118	V	122.40898	0.737767	0.004030	122.76303	0.732963	0.003994	123.11340	0.728193	0.003959
119	V	152.53922	0.404069	0.004425	153.21067	0.393908	0.004305	153.87757	0.383811	0.004185

ECCENTRICITY M		0.67 1ST DIF.	2ND DIF.	0.68 1ST DIF.	2ND DIF.	0.69 1ST DIF.	2ND DIF.
91	E	123.14282	0.733834	123.49210	0.003933	123.83773	0.003899
	V	152.93899	0.599772	153.63040	0.004297	154.25732	0.004179
92	E	123.87281	0.729996	124.21736	0.003838	124.55828	0.003752
	V	153.33459	0.395600	153.93607	0.004172	154.63313	0.004058
93	E	124.59906	0.726248	124.93890	0.003748	125.27516	0.003715
	V	153.72614	0.391549	154.35780	0.004051	155.00510	0.003941
94	E	125.32165	0.722588	125.65682	0.003660	125.98844	0.003628
	V	154.11375	0.387613	154.74570	0.003936	155.37730	0.003829
95	E	126.04066	0.719015	126.37119	0.003573	126.69821	0.003541
	V	154.49754	0.383789	155.11989	0.003824	155.73799	0.003719
96	E	126.75619	0.715526	127.03211	0.003489	127.30955	0.003459
	V	154.87761	0.380073	155.49345	0.003716	156.09911	0.003615
97	E	127.46831	0.712118	127.73965	0.003408	128.10755	0.003378
	V	155.25407	0.376461	155.83751	0.003612	156.45682	0.003513
98	E	128.17710	0.708790	128.49388	0.003328	128.80727	0.003299
	V	155.62703	0.372951	156.22115	0.003310	156.81121	0.003345
99	E	128.88264	0.705539	129.19490	0.003251	129.50381	0.003222
	V	155.99656	0.369537	156.58147	0.003414	157.16237	0.003319
100	E	129.58500	0.702364	129.89277	0.003175	130.19722	0.003147
	V	156.36278	0.366219	156.93856	0.003318	157.51040	0.003229
101	E	130.28426	0.699262	130.53757	0.003102	130.88758	0.003075
	V	156.72577	0.362991	157.29251	0.003228	157.85537	0.003139
102	E	130.98049	0.696232	131.27936	0.003030	131.57498	0.003003
	V	157.08562	0.359852	157.64341	0.003139	158.19738	0.003054
103	E	131.67377	0.693271	131.95822	0.002961	132.25946	0.002934
	V	157.44242	0.356798	157.99134	0.003054	158.53650	0.002970
104	E	132.36415	0.690379	132.65421	0.002892	132.94110	0.002867
	V	157.79625	0.353827	158.33637	0.002971	158.87280	0.002889
105	E	133.05170	0.687553	133.33740	0.002826	133.61997	0.002800
	V	158.14718	0.350937	158.67860	0.002890	159.20638	0.002812
106	E	133.73649	0.684793	134.01786	0.002760	134.29613	0.002736
	V	158.439531	0.348124	159.01809	0.002813	159.53730	0.002736
107	E	134.41859	0.682096	134.69564	0.002697	134.96963	0.002673
	V	158.84070	0.345387	159.35492	0.002737	159.86563	0.002662
108	E	135.09805	0.679460	135.37081	0.002636	135.64055	0.002612
	V	159.18342	0.342724	159.68916	0.002663	160.19144	0.002591
109	E	135.77493	0.676886	136.04943	0.002574	136.30894	0.002552
	V	159.52355	0.340131	160.02088	0.002593	160.51480	0.002521
110	E	136.44930	0.674370	136.71355	0.002516	136.97486	0.002493
	V	159.86116	0.337608	160.35014	0.002523	160.83577	0.002454
111	E	137.12122	0.671913	137.38124	0.002457	137.63837	0.002435
	V	160.19631	0.335152	160.67701	0.002456	161.15442	0.002389
112	E	137.79073	0.669512	138.04655	0.002401	138.29952	0.002379
	V	160.52907	0.332761	161.01566	0.002391	161.47081	0.002326
113	E	138.45790	0.667167	138.73954	0.002345	138.95837	0.002325
	V	160.85951	0.330434	161.32385	0.002327	161.78500	0.002264
114	E	139.12277	0.664876	139.37025	0.002291	139.61497	0.002270
	V	161.18767	0.328168	161.64393	0.002266	162.09705	0.002203
115	E	139.78541	0.662638	140.02875	0.002238	140.26936	0.002218
	V	161.51364	0.325963	161.95186	0.002205	162.40701	0.002146
116	E	140.44586	0.660452	140.68508	0.002186	140.92162	0.002166
	V	161.83745	0.323816	162.27771	0.002147	162.71495	0.002088
117	E	141.10418	0.658317	141.33930	0.002135	141.57177	0.002116
	V	162.15918	0.321726	162.59152	0.002090	163.02090	0.002033
118	E	141.76041	0.656232	141.99145	0.002085	142.21988	0.002066
	V	162.47887	0.319691	162.90336	0.002035	163.32494	0.001979
119	E	142.41460	0.654196	142.64158	0.002036	142.86599	0.002018
	V	162.79658	0.317710	163.21327	0.001981	163.62710	0.001927
120	E	143.06681	0.652208	143.28974	0.001988	143.51015	0.001970
	V	163.11236	0.315783	163.52130	0.001927	163.92743	0.001875

ECCENTRICITY M		0.67		2ND DIF.		0.68		2ND DIF.		0.69	
		1ST DIF.		2ND DIF.		1ST DIF.		2ND DIF.		1ST DIF.	2ND DIF.
121	E	143.71708	0.650268	0.001940	143.93598	0.646239	0.001923	144.15240	0.642252	0.001905	0.001905
	V	163.82627	0.313906	0.001877	163.82751	0.306208	0.001825	164.72620	0.298562	0.001775	0.001775
122	E	144.36545	0.648373	0.001895	144.58034	0.644361	0.001878	144.79219	0.640391	0.001861	0.001861
	V	163.73835	0.312080	0.001826	164.13194	0.304431	0.001777	164.52283	0.296835	0.001727	0.001727
123	E	145.01198	0.646524	0.001849	145.22287	0.642529	0.001832	145.43137	0.638576	0.001815	0.001815
	V	164.04865	0.310302	0.001778	164.43464	0.302702	0.001729	164.81799	0.295154	0.001681	0.001681
124	E	145.65670	0.644720	0.001804	145.86361	0.640741	0.001788	146.06817	0.636804	0.001772	0.001772
	V	164.35722	0.308572	0.001730	164.73566	0.301020	0.001682	165.11151	0.293519	0.001635	0.001635
125	E	146.29966	0.642959	0.001761	146.50261	0.638996	0.001745	146.70325	0.635075	0.001729	0.001729
	V	164.66411	0.306889	0.001683	165.03504	0.299382	0.001638	165.40363	0.291927	0.001592	0.001592
126	E	146.94090	0.641241	0.001718	147.13990	0.637294	0.001702	147.33663	0.633388	0.001687	0.001687
	V	164.96936	0.305252	0.001637	165.33283	0.297789	0.001593	165.69381	0.290378	0.001549	0.001549
127	E	147.58046	0.639566	0.001675	147.77554	0.635634	0.001660	147.96838	0.631743	0.001605	0.001605
	V	165.27302	0.303659	0.001593	165.62907	0.296240	0.001549	165.99268	0.288872	0.001506	0.001506
128	E	148.21840	0.637932	0.001634	148.40955	0.634014	0.001620	148.59851	0.630139	0.001604	0.001604
	V	165.57513	0.302109	0.001550	165.92380	0.294733	0.001507	166.27009	0.287407	0.001465	0.001465
129	E	148.85473	0.636339	0.001593	149.04199	0.632436	0.001578	149.22709	0.628575	0.001584	0.001584
	V	165.87573	0.300603	0.001506	166.21707	0.293267	0.001466	166.55607	0.285982	0.001425	0.001425
130	E	149.67886	0.634786	0.001553	149.67288	0.630897	0.001539	149.85414	0.627050	0.001525	0.001525
	V	166.17687	0.299137	0.001466	166.50891	0.291841	0.001426	166.84067	0.284596	0.001386	0.001386
131	E	150.12279	0.633273	0.001513	150.30228	0.629398	0.001499	150.47970	0.625564	0.001486	0.001486
	V	166.47258	0.297713	0.001424	166.79937	0.290456	0.001385	167.12391	0.283249	0.001347	0.001347
132	E	150.75459	0.631799	0.001474	150.93022	0.627937	0.001461	151.10382	0.624117	0.001447	0.001447
	V	166.76891	0.296328	0.001385	167.08848	0.289109	0.001347	167.40586	0.281939	0.001310	0.001310
133	E	151.38495	0.630363	0.001436	151.55673	0.626514	0.001423	151.72653	0.622707	0.001410	0.001410
	V	167.06390	0.294983	0.001345	167.37628	0.287800	0.001309	167.68652	0.280667	0.001272	0.001272
134	E	152.01392	0.628965	0.001398	152.18186	0.625128	0.001313	152.34786	0.621334	0.001373	0.001373
	V	167.35757	0.293676	0.001307	167.66281	0.286529	0.001271	167.96595	0.279431	0.001236	0.001236
135	E	152.64152	0.627604	0.001361	152.80564	0.623780	0.001348	152.96786	0.619937	0.001337	0.001337
	V	167.64998	0.292406	0.001270	167.94810	0.285294	0.001235	168.24418	0.278230	0.001201	0.001201
136	E	153.26780	0.626280	0.001324	153.42811	0.622467	0.001313	153.58656	0.618697	0.001300	0.001300
	V	167.94115	0.291174	0.001232	168.23219	0.284095	0.001199	168.52125	0.277064	0.001166	0.001166
137	E	153.89280	0.624992	0.001288	154.04930	0.621191	0.001276	154.20399	0.617432	0.001265	0.001265
	V	168.23113	0.289977	0.001197	168.51513	0.282931	0.001164	168.79718	0.275933	0.001131	0.001131
138	E	154.51653	0.623739	0.001253	154.66925	0.619950	0.001241	154.82019	0.616202	0.001230	0.001230
	V	168.51995	0.288816	0.001161	168.79693	0.281801	0.001130	169.07201	0.274834	0.001099	0.001099
139	E	155.13906	0.622522	0.001217	155.28799	0.618743	0.001207	155.43520	0.615007	0.001195	0.001195
	V	168.80763	0.287690	0.001126	169.07763	0.280705	0.001096	169.34578	0.273769	0.001085	0.001085
140	E	155.76040	0.621339	0.001183	155.90556	0.617571	0.001172	156.04904	0.613846	0.001161	0.001161
	V	169.09423	0.286598	0.001092	169.35728	0.279643	0.001062	169.61852	0.610562	0.001082	0.001082
141	E	156.38059	0.620191	0.001148	156.52200	0.616433	0.001138	156.666176	0.612718	0.001128	0.001128
	V	169.37977	0.285539	0.001059	169.63589	0.278613	0.001030	169.89025	0.271735	0.001001	0.001001
142	E	156.99966	0.619076	0.001115	157.13733	0.615329	0.001104	157.27938	0.611624	0.001094	0.001094
	V	169.66429	0.284514	0.001025	169.91350	0.277616	0.000997	170.16102	0.270765	0.000970	0.000970
143	E	157.61766	0.617995	0.001081	157.75158	0.614257	0.001072	157.88395	0.610562	0.001062	0.001062
	V	169.94781	0.283521	0.000993	170.19015	0.276650	0.000966	170.43085	0.269826	0.000939	0.000939
144	E	158.23460	0.616947	0.001048	158.36480	0.613218	0.001039	158.49348	0.609532	0.001030	0.001030
	V	170.23037	0.282560	0.000961	170.46587	0.275715	0.000935	170.69976	0.268917	0.000909	0.000909
145	E	158.85053	0.615931	0.001016	158.97701	0.612212	0.001005	159.10201	0.608535	0.000957	0.000957
	V	170.51200	0.281630	0.000930	170.74068	0.274810	0.000905	170.96780	0.268038	0.000879	0.000879
146	E	159.46548	0.614947	0.000984	159.58825	0.611237	0.000975	159.70958	0.607569	0.000966	0.000966
	V	170.79273	0.280731	0.000899	171.01461	0.273936	0.000874	171.23422	0.267187	0.000851	0.000851
147	E	160.07948	0.613996	0.000951	160.19854	0.610294	0.000943	160.31622	0.606635	0.000934	0.000934
	V	171.07259	0.279863	0.000868	171.28771	0.273091	0.000845	171.50135	0.266366	0.000821	0.000821
148	E	160.69255	0.613075	0.000921	160.80793	0.609382	0.000912	160.92195	0.605731	0.000904	0.000904
	V	171.35162	0.279025	0.000838	171.55998	0.272276	0.000815	171.77663	0.265573	0.000793	0.000793
149	E	161.30474	0.612186	0.000889	161.41643	0.608501	0.000881	161.52681	0.604858	0.000873	0.000873
	V	171.62983	0.278216	0.000809	171.83147	0.271489	0.000787	172.03173	0.264808	0.000765	0.000765
150	E	161.91607	0.611328	0.000858	162.02408	0.607651	0.000850	162.13082	0.604016	0.000842	0.000842
	V	171.90727	0.277437	0.000779	172.10220	0.270731	0.000758	172.29580	0.264071	0.000737	0.000737

143

ECCENTRICITY M		0.70		2ND DIF.		0.71		2ND DIF.		0.72		2ND DIF.	
		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.		1ST DIF.	
1	E	3.32896				3.44320				3.56551			
2	V	7.91414				8.34878				8.82243			
3	E	6.63213				6.85651				7.09624			
4	V	15.70619				16.55334				17.47370			
5	E	9.88572				10.21264				10.56078			
6	V	23.26621				24.48545				25.80385			
7	E	3.253590				3.413312				3.530729			
8	V	7.792045				8.204556				8.651269			
9	E	7.560027				7.932118				8.30155			
10	V	3.183836				3.272624				3.372821			
11	E	13.06956				13.48888				13.93360			
12	V	7.239497				7.59205				7.895200			
13	E	30.50571				32.04466				33.69905			
14	V	3.098431				3.179315				3.262661			
15	E	16.16799				16.66820				17.19626			
16	V	37.36218				39.16339				41.08717			
17	E	19.17011				19.73931				20.33732			
18	V	3.002116				3.071110				3.141063			
19	E	6.436955				6.642571				6.847849			
20	V	2.899281				2.956805				3.014095			
21	E	22.06939				23.35142				24.630542			
22	V	49.80275				51.96337				54.24056			
23	E	6.003616				6.157408				6.305542			
24	V	2.793631				2.840609				2.886493			
25	E	24.86302				25.53672				26.23791			
26	V	5.574110				5.683035				5.783009			
27	E	27.55108				28.26240				28.99557			
28	V	6.688065				6.762679				6.836136			
29	E	5.160832				5.232502				5.305555			
30	V	60.53769				62.87890				65.31712			
31	E	30.13578				30.87661				31.64128			
32	V	4.771547				4.813259				4.843857			
33	E	2.484948				2.507575				2.528068			
34	V	4.410376				4.428607				4.435980			
35	E	2.389721				2.406577				2.421272			
36	V	35.01044				35.79076				36.59062			
37	E	73.79843				76.19980				78.66604			
38	V	37.30994				38.10231				38.91213			
39	E	2.299492				2.311557				2.321516			
40	V	77.57503				79.96305				82.40671			
41	E	3.776605				3.763255				3.740665			
42	V	2.214452				2.22566				2.228677			
43	E	39.52439				40.32488				41.14081			
44	V	81.07745				83.44210				85.85414			
45	E	3.502417				3.479049				3.47434			
46	V	2.134587				2.139459				2.142459			
47	E	3.254320				3.223709				3.185300			
48	V	84.33177				86.65681				89.03977			
49	E	2.059753				2.061974				2.052467			
50	V	43.71873				44.52631				45.34574			
51	E	87.36189				89.66022				91.99232			
52	V	3.030121				2.994409				2.92300			
53	E	1.989724				1.989785				1.988262			
54	V	45.70845				46.51610				47.33400			
55	E	90.18946				92.44861				94.73602			
56	V	47.63268				48.43863				49.25339			
57	E	92.83393				95.03169				97.29293			
58	V	2.644471				2.603074				2.566910			
59	E	49.49567				50.29849				51.10882			
60	V	95.31271				97.48779				99.68224			
61	E	1.805681				1.801406				1.855429			
62	V	2.328635				2.285367				2.238553			
63	E	97.64135				99.77316				101.92079			
64	V	53.05339				53.86673				54.64533			
65	E	1.752040				1.746835				1.740561			
66	V	2.192324				2.148997				2.102597			
67	E	54.75517				55.54256				56.33425			
68	V	1.701780				1.695829				1.688914			
69	E	2.068339				2.025312				1.979656			
70	V	101.90201				103.94746				106.00304			
71	E	1.654642				1.648095				1.640679			
72	V	1.654642				1.648095				1.640679			
73	E	56.40981				57.97492				59.57048			
74	V	103.85734				105.86035				107.87123			
75	E	1.955933				1.912891				1.868184			
76	V	1.610382				1.603363				1.595560			
77	E	58.02019				58.79402				59.57048			
78	V	105.70946				107.67080				109.63806			
79	E	1.852117				1.810453				1.766837			
80	V	1.568774				1.561385				1.553289			
81	E	1.568774				1.561385				1.553289			
82	V	1.757640				1.716887				1.674453			
83	E	1.529613				1.521937				1.513624			
84	V	61.11858				61.87734				62.63740			
85	E	1.670978				1.631224				1.590020			
86	V	109.13808				111.01891				112.90254			
87	E	62.61129				63.36216				64.11374			
88	V	110.72939				112.57152				114.41520			
89	E	1.457887				1.449832				1.441259			
90	V	64.06917				64.81199				65.55500			
91	E	1.517931				1.480309				1.451609			
92	V	112.24733				114.05183				115.85681			
93	E	65.49416				66.22881				66.96319			
94	V	113.69752				115.46549				117.23300			
95	E	66.88804				67.61444				68.34015			
96	V	115.08507				116.81759				118.54885			
97	E	1.387549				1.352098				1.315846			
98	V	1.387549				1.352098				1.315846			
99	E	1.387549				1.352098				1.315846			
100	V	1.387549				1.352098				1.315846			

ECCENTRICITY

		1st 8IF.	2ND DIF.	1st 71	2ND DIF.	1st 72	2ND DIF.
31	E	68.25244	0.029468	68.97356	1.356117	69.68760	0.029512
	V	116.41457	0.058053	118.11271	1.295113	119.80889	0.056985
32	E	69.58890	0.027941	70.23982	1.295113	71.00711	0.027958
	V	117.69016	0.053897	119.35497	1.242260	121.01721	0.052853
33	E	70.89884	0.026522	71.60036	1.301642	72.30014	0.026517
	V	118.91564	0.050129	120.54811	1.193148	122.17753	0.049112
34	E	72.18358	0.025203	72.87682	1.276461	73.56804	0.025181
	V	117.8765	0.046705	121.69554	1.147428	123.29318	0.045720
35	E	73.44434	0.023977	74.12934	1.252521	74.81206	0.023940
	V	121.22958	0.043369	122.80033	1.104790	124.36720	0.042638
36	E	74.68227	0.022833	75.35908	1.229737	76.03338	0.022784
	V	122.32401	0.040746	123.86529	1.064960	125.40237	0.039830
37	E	75.89843	0.021766	76.56711	1.208029	77.23307	0.021708
	V	123.38029	0.038150	124.89298	1.027691	126.40120	0.037269
38	E	77.09383	0.020769	77.75443	1.187325	78.41214	0.020704
	V	124.40079	0.035771	125.88575	0.992766	127.36599	0.034925
39	E	78.26938	0.019838	78.92199	1.167560	79.57153	0.019765
	V	125.38771	0.033591	126.84574	0.959987	128.29884	0.032779
40	E	79.42597	0.018964	80.07066	1.148672	80.71213	0.018888
	V	126.34305	0.031566	127.77491	0.929178	129.20170	0.030809
41	E	80.56442	0.018145	81.20127	1.130608	81.83476	0.018064
	V	127.26863	0.029742	128.67509	0.900181	130.07634	0.028997
42	E	81.68549	0.017377	82.31459	1.113314	82.94020	0.017294
	V	128.16618	0.028041	129.54795	0.872853	130.92438	0.027328
43	E	82.78990	0.016654	83.41133	1.096745	84.02916	0.016569
	V	129.03726	0.026470	130.39501	0.847064	131.74734	0.025789
44	E	83.87834	0.015975	84.49219	1.080857	85.10234	0.015888
	V	129.88332	0.025010	131.21771	0.822700	132.54661	0.024364
45	E	84.95145	0.015334	85.55780	1.065611	86.16036	0.015246
	V	130.70571	0.023671	132.01736	0.799653	133.32347	0.023047
46	E	86.00983	0.014730	86.60877	1.050969	87.20385	0.014642
	V	131.50568	0.022423	132.79519	0.777827	134.07912	0.021825
47	E	87.05404	0.014160	87.64567	1.036897	88.29335	0.014072
	V	132.28438	0.021263	133.55233	0.757137	134.81466	0.020691
48	E	88.08464	0.013621	88.66903	1.023363	89.24942	0.013534
	V	133.04291	0.020184	134.28983	0.737501	135.53113	0.019636
49	E	89.10212	0.013111	89.67937	1.010339	90.25256	0.013024
	V	133.78225	0.019177	135.00867	0.718847	136.22947	0.018654
50	E	90.10698	0.012629	90.67716	0.997796	91.24525	0.012543
	V	134.50335	0.018240	135.70979	0.701110	136.91059	0.017737
51	E	91.09966	0.012172	91.66287	0.985710	92.22194	0.012086
	V	135.20709	0.017364	136.39401	0.684227	137.57532	0.016883
52	E	92.08060	0.011737	92.63693	0.974056	93.18908	0.011854
	V	135.89429	0.016544	137.06216	0.668144	138.22443	0.016083
53	E	93.05023	0.011326	93.59974	0.962814	94.14505	0.011242
	V	136.56570	0.015777	137.71497	0.652810	138.85866	0.015334
54	E	94.00891	0.010934	94.55170	0.9551962	95.09027	0.010852
	V	137.22206	0.015057	138.35314	0.638176	139.47868	0.014634
55	E	94.95704	0.010561	95.49318	0.941480	96.02508	0.010482
	V	137.86404	0.014382	138.97734	0.624200	140.08513	0.013976
56	E	95.89495	0.010207	96.42854	0.931352	96.94985	0.010128
	V	138.49227	0.013749	139.58818	0.610843	140.67863	0.013357
57	E	96.82300	0.009869	97.34610	0.921561	97.86491	0.009791
	V	139.10735	0.013151	140.18625	0.598066	141.25972	0.012777
58	E	97.74151	0.009502	98.25819	0.912090	98.77058	0.009471
	V	139.70984	0.012590	140.77209	0.585836	141.82895	0.012230
59	E	98.65077	0.009262	99.16111	0.902925	99.66716	0.009165
	V	140.30027	0.012061	141.34621	0.574121	142.38681	0.011715
60	E	99.55108	0.008946	100.05316	0.894051	100.5495	0.008874
	V	140.87914	0.011561	141.90910	0.562892	142.99378	0.011229

ECCENTRICITY M		0.70		0.71		0.72	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
61	E	100.44273	0.891651	100.94062	0.885457	101.43421	0.879264
	V	141.44691	0.567777	142.446122	0.552122	143.447030	0.536520
62	E	101.32599	0.883253	101.817130	0.877130	102.30322	0.871009
	V	142.00405	0.557133	143.00301	0.541786	143.99679	0.526492
63	E	102.20110	0.875113	102.68681	0.869037	103.16823	0.863008
	V	142.55096	0.546910	143.53348	0.531859	144.51365	0.516863
64	E	103.06832	0.867218	103.54804	0.861229	104.02348	0.855249
	V	143.08804	0.537087	144.05719	0.522321	145.02127	0.507611
65	E	103.92788	0.859559	104.40167	0.853635	104.87120	0.847723
	V	143.61569	0.527642	144.57034	0.513150	145.51998	0.498716
66	E	104.78000	0.852125	105.24794	0.846266	105.71162	0.840419
	V	144.13424	0.518555	145.07467	0.504328	146.01014	0.490160
67	E	105.62491	0.844909	106.08705	0.839111	106.54495	0.833329
	V	144.64405	0.509809	145.57051	0.495837	146.49207	0.481924
68	E	106.46281	0.837900	106.91921	0.832164	107.37139	0.826444
	V	145.14544	0.501386	146.05816	0.487660	146.96606	0.473994
69	E	107.29390	0.831092	107.74463	0.825415	108.19115	0.819756
	V	145.63871	0.493271	146.53795	0.479782	147.43241	0.466353
70	E	108.11838	0.824475	108.56348	0.818857	109.00441	0.813258
	V	146.12415	0.485448	147.01014	0.472188	147.89140	0.458989
71	E	108.93642	0.818044	109.37597	0.812482	109.81135	0.806941
	V	146.60206	0.477903	147.47500	0.464885	148.34329	0.451886
72	E	109.74821	0.811790	110.18225	0.806284	110.61215	0.800800
	V	147.07268	0.470624	147.93280	0.457799	148.78832	0.445034
73	E	110.55392	0.805707	110.98250	0.800255	111.40698	0.794827
	V	147.53628	0.463598	148.38378	0.450979	149.22674	0.438420
74	E	111.35371	0.799790	111.77690	0.794391	112.19599	0.789017
	V	147.99309	0.466785	148.82817	0.444393	149.65878	0.432034
75	E	112.14774	0.794031	112.56558	0.788684	112.97936	0.783363
	V	148.44335	0.450259	149.26620	0.438031	150.08464	0.425864
76	E	112.93617	0.788426	113.34481	0.783129	113.75722	0.777860
	V	148.88728	0.443924	149.69809	0.431883	150.50454	0.419902
77	E	113.71914	0.782969	114.12643	0.777722	114.52972	0.772502
	V	149.32508	0.437800	150.12402	0.425939	150.91868	0.414138
78	E	114.49679	0.777655	114.89889	0.772456	115.29700	0.767286
	V	149.75695	0.431877	150.54421	0.420190	151.32724	0.408563
79	E	115.26927	0.772478	115.66621	0.767376	116.05921	0.762204
	V	150.18310	0.426147	150.95884	0.414628	151.73041	0.403169
80	E	116.03670	0.767435	116.42834	0.762339	116.81846	0.757254
	V	150.60370	0.420601	151.36809	0.409246	152.12836	0.397949
81	E	116.79922	0.762521	117.18600	0.757460	117.56889	0.752431
	V	151.01893	0.415232	151.77212	0.404034	152.52126	0.392896
82	E	117.55696	0.757732	117.93872	0.752715	118.31662	0.747730
	V	151.42896	0.410032	152.17111	0.398988	152.90926	0.388002
83	E	118.31002	0.753063	118.68681	0.748089	119.05977	0.743147
	V	151.83396	0.404995	152.56521	0.394099	153.29252	0.383261
84	E	119.05853	0.748511	119.43039	0.743579	119.79845	0.738680
	V	152.23407	0.400113	152.95457	0.389361	153.67119	0.378666
85	E	119.80260	0.744072	120.16957	0.739181	120.53277	0.734323
	V	152.62945	0.395382	153.33934	0.384769	154.04540	0.374213
86	E	120.54235	0.739743	120.90446	0.734892	121.26285	0.730074
	V	153.02025	0.390794	153.71965	0.380316	154.41530	0.369895
87	E	121.27787	0.735520	121.63517	0.730708	121.98878	0.725930
	V	153.40659	0.386345	154.09565	0.375998	154.78100	0.365707
88	E	122.00927	0.731400	122.36179	0.726626	122.71066	0.721887
	V	153.78862	0.382029	154.46746	0.371809	155.14265	0.361645
89	E	122.73665	0.727380	123.08443	0.722643	123.42861	0.717942
	V	154.16646	0.377841	154.83521	0.367744	155.50035	0.357703
90	E	123.46010	0.723457	123.80319	0.718756	124.14270	0.714092
	V	154.54024	0.373776	155.19901	0.363799	155.85423	0.353877

ECCENTRICITY

		10^{+7}DIF.	2ND DIF.	10^{+7}DIF.	2ND DIF.	10^{+7}DIF.	2ND DIF.
91	E	124.17973	0.019628	0.003829	0.003829	0.714963	0.003793
	V	154.91007	0.369830	0.003946	0.003946	0.359969	0.003830
92	E	124.89562	0.715891	0.003737	0.003737	0.711261	0.003702
	V	155.27607	0.365999	0.003831	0.003831	0.355251	0.003718
93	E	125.60787	0.712242	0.003649	0.003649	0.707646	0.003615
	V	155.63835	0.362278	0.003721	0.003721	0.352639	0.003612
94	E	126.31655	0.708680	0.003562	0.003562	0.704117	0.003529
	V	155.99701	0.358663	0.003615	0.003615	0.349131	0.003508
95	E	127.02175	0.705202	0.003478	0.003478	0.700672	0.003445
	V	156.35216	0.355151	0.003512	0.003512	0.345722	0.003409
96	E	127.72355	0.701806	0.003396	0.003396	0.697307	0.003365
	V	156.70390	0.351739	0.003412	0.003412	0.342410	0.003312
97	E	128.42204	0.698489	0.003317	0.003317	0.694021	0.003286
	V	157.05232	0.348422	0.003317	0.003317	0.339190	0.003220
98	E	129.11729	0.695250	0.003239	0.003239	0.690812	0.003209
	V	157.39752	0.345198	0.003224	0.003224	0.336061	0.003129
99	E	129.80938	0.692086	0.003164	0.003164	0.687678	0.003134
	V	157.73958	0.342063	0.003135	0.003135	0.333018	0.003043
100	E	130.49837	0.688986	0.003090	0.003090	0.684617	0.003061
	V	158.07860	0.339015	0.003048	0.003048	0.330060	0.002958
101	E	131.18435	0.685977	0.003019	0.003019	0.681626	0.002991
	V	158.41465	0.336051	0.002964	0.002964	0.327183	0.002877
102	E	131.86738	0.683028	0.002949	0.002949	0.678705	0.002921
	V	158.74782	0.333168	0.002883	0.002883	0.324384	0.002799
103	E	132.54753	0.680148	0.002880	0.002880	0.675851	0.002854
	V	159.07818	0.330364	0.002804	0.002804	0.321662	0.002722
104	E	133.22486	0.677333	0.002815	0.002815	0.673063	0.002788
	V	159.40582	0.327635	0.002729	0.002729	0.319013	0.002649
105	E	133.89945	0.674584	0.002749	0.002749	0.670339	0.002724
	V	159.73079	0.324980	0.002655	0.002655	0.316436	0.002577
106	E	134.57134	0.671897	0.002687	0.002687	0.667678	0.002661
	V	160.05319	0.322397	0.002583	0.002583	0.313929	0.002507
107	E	135.24062	0.669273	0.002624	0.002624	0.665078	0.002600
	V	160.37308	0.319884	0.002513	0.002513	0.311489	0.002440
108	E	135.90732	0.666709	0.002564	0.002564	0.662538	0.002540
	V	160.69051	0.317437	0.002447	0.002447	0.309114	0.002375
109	E	136.57153	0.664204	0.002505	0.002505	0.660056	0.002482
	V	161.00557	0.315056	0.002381	0.002381	0.306803	0.002311
110	E	137.23328	0.661756	0.002448	0.002448	0.657631	0.002425
	V	161.51831	0.312739	0.002317	0.002317	0.304553	0.002250
111	E	137.89265	0.659365	0.002391	0.002391	0.655263	0.002368
	V	161.62879	0.310483	0.002256	0.002256	0.302363	0.002190
112	E	138.54968	0.657029	0.002336	0.002336	0.652949	0.002314
	V	161.93708	0.308287	0.002196	0.002196	0.300231	0.002132
113	E	139.20443	0.654747	0.002282	0.002282	0.650688	0.002261
	V	162.24323	0.306149	0.002138	0.002138	0.298156	0.002075
114	E	139.85694	0.652518	0.002229	0.002229	0.648480	0.002208
	V	162.54729	0.304068	0.002081	0.002081	0.296135	0.002021
115	E	140.50728	0.650341	0.002177	0.002177	0.646323	0.002157
	V	162.84934	0.302042	0.002026	0.002026	0.294169	0.001966
116	E	141.15550	0.648214	0.002127	0.002127	0.644216	0.002107
	V	163.14941	0.300070	0.001972	0.001972	0.292254	0.001915
117	E	141.80163	0.646137	0.002077	0.002077	0.642158	0.002058
	V	163.44756	0.298150	0.001920	0.001920	0.290390	0.001864
118	E	142.44574	0.644108	0.002029	0.002029	0.640149	0.002009
	V	163.74384	0.296281	0.001869	0.001869	0.288575	0.001815
119	E	143.08787	0.642128	0.001980	0.001980	0.638187	0.001962
	V	164.03830	0.294461	0.001820	0.001820	0.286809	0.001766
120	E	143.72806	0.640194	0.001934	0.001934	0.636271	0.001916
	V	164.33099	0.292690	0.001771	0.001771	0.285089	0.001720

ECCENTRICITY E _M	1 σ ⁷⁰ DIF.	2ND DIF.	1 σ ⁷¹ DIF.	2ND DIF.	1 σ ⁷² DIF.	2ND DIF.
151	E 162.83594	0.599617	0.000805	0.596072	0.592567	0.000790
	V 172.74495	0.256763	0.000690	0.250204	0.243679	0.000650
152	E 163.43478	0.598841	0.000776	0.595303	0.591805	0.000762
	V 173.00105	0.256099	0.000664	0.249559	0.243053	0.000626
153	E 164.03288	0.598095	0.000746	0.594563	0.591072	0.000733
	V 173.25651	0.255461	0.000638	0.248939	0.242451	0.000602
154	E 164.63025	0.597377	0.000718	0.593852	0.590368	0.000704
	V 173.51136	0.254848	0.000613	0.248344	0.241874	0.000577
155	E 165.22694	0.596688	0.000689	0.593170	0.589692	0.000676
	V 173.76562	0.254261	0.000587	0.247773	0.241320	0.000554
156	E 165.82297	0.596027	0.000661	0.592515	0.589043	0.000649
	V 174.01932	0.253698	0.000563	0.247227	0.240789	0.000531
157	E 166.41836	0.595394	0.000633	0.591888	0.588422	0.000621
	V 174.27248	0.253160	0.000538	0.246704	0.240282	0.000507
158	E 167.01315	0.594790	0.000604	0.591289	0.587829	0.000593
	V 174.52513	0.252646	0.000514	0.246205	0.239798	0.000484
159	E 167.60736	0.594213	0.000577	0.590718	0.587263	0.000566
	V 174.77728	0.252156	0.000490	0.245729	0.239336	0.000462
160	E 168.20103	0.593663	0.000550	0.590173	0.586723	0.000540
	V 175.02897	0.251690	0.000466	0.245277	0.238897	0.000439
161	E 168.79417	0.593141	0.000522	0.589656	0.586211	0.000512
	V 175.28022	0.251247	0.000443	0.244847	0.238480	0.000417
162	E 169.38682	0.592647	0.000494	0.589166	0.585725	0.000486
	V 175.53105	0.250828	0.000419	0.244440	0.238085	0.000395
163	E 169.97900	0.592179	0.000468	0.588702	0.585266	0.000459
	V 175.78148	0.250433	0.000395	0.244056	0.237711	0.000374
164	E 170.57073	0.591738	0.000441	0.588266	0.584833	0.000433
	V 176.03154	0.250060	0.000373	0.243693	0.237360	0.000351
165	E 171.16206	0.591324	0.000414	0.587855	0.584427	0.000406
	V 176.28125	0.249710	0.000350	0.243353	0.237030	0.000330
166	E 171.75299	0.590936	0.000388	0.587471	0.584046	0.000381
	V 176.53063	0.249382	0.000361	0.243036	0.236721	0.000309
167	E 172.34357	0.590575	0.000361	0.587113	0.583691	0.000355
	V 176.77971	0.249078	0.000304	0.242739	0.236434	0.000287
168	E 172.93381	0.590240	0.000335	0.586781	0.583363	0.000328
	V 177.02851	0.248795	0.000283	0.242465	0.236168	0.000266
169	E 173.52374	0.589931	0.000309	0.586475	0.583059	0.000304
	V 177.27704	0.248535	0.000260	0.242212	0.235922	0.000246
170	E 174.11339	0.589648	0.000283	0.586195	0.582782	0.000277
	V 177.52534	0.248297	0.000238	0.241981	0.235698	0.000224
171	E 174.70278	0.589391	0.000257	0.585941	0.582530	0.000252
	V 177.77342	0.248080	0.000217	0.241771	0.235494	0.000204
172	E 175.29194	0.589160	0.000231	0.585712	0.582303	0.000227
	V 178.02130	0.247886	0.000194	0.241582	0.235311	0.000183
173	E 175.88089	0.588956	0.000204	0.585509	0.582102	0.000201
	V 178.26902	0.247714	0.000172	0.241415	0.235148	0.000163
174	E 176.46967	0.588776	0.000180	0.585331	0.581926	0.000176
	V 178.51658	0.247563	0.000151	0.241269	0.235006	0.000142
175	E 177.05829	0.588623	0.000153	0.585179	0.581776	0.000150
	V 178.76401	0.247434	0.000129	0.241143	0.234885	0.000121
176	E 177.64679	0.588495	0.000128	0.585053	0.581650	0.000126
	V 179.01134	0.247326	0.000108	0.241039	0.234783	0.000102
177	E 178.23518	0.588393	0.000102	0.584951	0.581550	0.000100
	V 179.25858	0.247241	0.000085	0.240955	0.234702	0.000081
178	E 178.82350	0.588316	0.000077	0.584875	0.581475	0.000075
	V 179.50576	0.247176	0.000065	0.240893	0.234642	0.000060
179	E 179.41176	0.588265	0.000051	0.584825	0.581425	0.000050
	V 179.75289	0.247133	0.000043	0.240851	0.234601	0.000041
180	E 180.00000	0.588240	0.000025	0.584800	0.581400	0.000025
	V 180.00000	0.247112	0.000021	0.240830	0.234581	0.000020

ECCENTRICITY
M

		0.73 1ST DIF.	2ND DIF.	0.74 1ST DIF.	2ND DIF.	0.75 1ST DIF.	2ND DIF.
1	E	3.69677		3.83799		3.99033	
	V	9.34009		9.90763		10.53192	
2	E	7.35288		7.62822		7.92428	
	V	18.47605		19.57051		20.76873	
3	E	10.93210	0.076900	11.32878	0.089682	11.75323	0.105007
	V	27.23203	0.379981	28.78191	0.5211479	30.46686	0.538687
4	E	14.40575	0.105568	14.90752	0.121817	15.44128	0.140910
	V	35.47943	0.508574	37.339725	0.5596087	38.997958	0.700165
5	E	17.75403	0.125357	18.34345	0.142804	18.96651	0.162809
	V	43.14259	0.584254	47.93907	0.673518	47.68626	0.776514
6	E	20.96567	0.136654	21.62585	0.153350	22.31936	0.172379
	V	50.19318	0.612553	52.58721	0.693668	55.12356	0.784140
7	E	24.03642	0.140889	24.75214	0.156117	25.49954	0.172674
	V	56.63887	0.604910	59.16241	0.672958	61.81464	0.746221
8	E	26.96729	0.139869	27.72546	0.152970	28.51287	0.166851
	V	62.51080	0.573762	65.10993	0.627670	67.82205	0.683673
9	E	29.76286	0.135307	30.55256	0.146217	31.36870	0.157499
	V	67.85308	0.529644	70.48687	0.570581	73.21786	0.611605
10	E	32.42983	0.128601	33.24217	0.137487	34.07806	0.146471
	V	72.71514	0.480222	75.35351	0.510300	78.07432	0.539347
11	E	34.97602	0.120782	35.80387	0.127914	36.65244	0.134372
	V	77.14675	0.430450	79.76820	0.451941	82.45889	0.471883
12	E	37.40965	0.112560	38.24734	0.118226	39.10310	0.123726
	V	81.19516	0.383197	83.78477	0.401650	86.43208	0.411384
13	E	39.73888	0.104388	40.58196	0.108862	41.44064	0.113121
	V	84.90368	0.339897	87.45136	0.349966	90.04688	0.358392
14	E	41.97158	0.096541	42.81651	0.100055	43.67484	0.103341
	V	88.31111	0.301083	90.81036	0.307591	93.34908	0.302198
15	E	44.11511	0.089166	44.95915	0.091918	45.81459	0.094443
	V	91.45178	0.266760	93.89867	0.270697	96.37795	0.273322
16	E	46.17631	0.082332	47.01731	0.084479	47.86794	0.086413
	V	94.35580	0.236660	96.74821	0.238763	99.16709	0.239737
17	E	48.16146	0.076056	48.99774	0.077727	49.84208	0.079200
	V	97.04943	0.210383	99.38636	0.211192	101.74519	0.211043
18	E	50.07628	0.070327	50.90655	0.071619	51.74348	0.072736
	V	99.55556	0.187494	101.83751	0.187399	104.13678	0.186502
19	E	51.92598	0.065114	52.74926	0.066109	53.57794	0.066945
	V	101.89413	0.167564	104.12162	0.166850	106.36291	0.165464
20	E	53.71530	0.060378	54.53082	0.061138	55.35065	0.061756
	V	104.08251	0.150198	106.25665	0.149070	108.44166	0.147380
21	E	55.44855	0.056082	56.25573	0.056655	57.06625	0.057103
	V	106.13584	0.135043	108.25803	0.133646	110.38863	0.131780
22	E	57.12961	0.052182	57.92804	0.052606	58.72893	0.052921
	V	108.06738	0.121788	110.13919	0.120228	112.21733	0.118277
23	E	58.76203	0.048639	59.55140	0.048947	60.34246	0.049157
	V	109.88876	0.110167	111.91193	0.108518	113.93948	0.106542
24	E	60.34903	0.045419	61.12912	0.045653	61.91022	0.045761
	V	111.61018	0.099951	113.56821	0.098267	115.56532	0.096307
25	E	61.89355	0.042487	62.66642	0.042626	63.43529	0.042690
	V	113.24066	0.109045	115.17132	0.108926	117.10382	0.1087346
26	E	63.39825	0.039813	64.15943	0.039893	64.92046	0.039906
	V	114.78816	0.082982	116.67511	0.081322	118.56285	0.079469
27	E	64.86558	0.037371	65.61723	0.037404	66.36825	0.037379
	V	116.25974	0.075179	118.10460	0.074303	119.94936	0.072523
28	E	66.29778	0.035137	67.03990	0.035133	67.78096	0.035076
	V	117.66168	0.069638	119.446601	0.068075	121.26949	0.066374
29	E	67.65688	0.033089	68.442951	0.033055	69.16070	0.032974
	V	118.99959	0.064036	120.76489	0.062532	122.52871	0.060912
30	E	69.06478	0.031208	69.78798	0.031150	70.50938	0.031053
	V	120.27847	0.059023	122.00619	0.057585	123.73188	0.056046

151

ECCENTRICITY
M

		0.73 1ST DIF.	2ND DIF.	0.74 1ST DIF.	2ND DIF.	0.75 1ST DIF.	2ND DIF.
61	E	101.92350	0.873077	102.40846	0.008443	102.88910	0.008363
	V	144.47458	0.520971	145.47455	0.009800	146.47075	0.009800
62	E	102.78839	0.864897	103.26726	0.008180	103.74181	0.008103
	V	144.98584	0.511254	145.97063	0.009717	146.95170	0.009406
63	E	103.64536	0.856969	104.11820	0.007928	104.58674	0.007853
	V	145.48776	0.501924	146.45767	0.009330	147.42391	0.009031
64	E	104.49464	0.849281	104.96153	0.007688	105.42414	0.007615
	V	145.98072	0.492959	146.93603	0.008965	147.88773	0.008677
65	E	105.33647	0.841824	105.79747	0.007457	106.25422	0.007385
	V	146.46506	0.484340	147.40605	0.008619	148.34349	0.008342
66	E	106.17106	0.834588	106.62825	0.007236	107.07720	0.007167
	V	146.94111	0.476049	147.86805	0.008291	148.79149	0.008025
67	E	106.99862	0.827564	107.44807	0.007024	107.89330	0.006956
	V	147.40918	0.468070	148.32232	0.007979	149.23202	0.007723
68	E	107.81936	0.820744	108.26313	0.006820	108.70271	0.006755
	V	147.86956	0.460386	148.76915	0.007684	149.66536	0.007437
69	E	108.63348	0.814119	109.07164	0.006625	109.50563	0.006561
	V	148.32255	0.452984	149.20883	0.007402	150.09177	0.007165
70	E	109.44116	0.807681	109.87376	0.006438	110.30223	0.006375
	V	148.76839	0.445848	149.64159	0.007136	150.51150	0.006906
71	E	110.24259	0.801424	110.66970	0.006257	111.09270	0.006196
	V	149.20736	0.438967	150.06769	0.006881	150.92480	0.006661
72	E	111.03793	0.795341	111.45961	0.006083	111.87720	0.006025
	V	149.63369	0.432328	150.48737	0.006639	151.33188	0.006425
73	E	111.82735	0.789425	112.24366	0.005916	112.65591	0.005858
	V	150.06561	0.425920	150.90085	0.006408	151.73296	0.006203
74	E	112.61102	0.783670	113.02201	0.005755	113.42897	0.005699
	V	150.48534	0.419733	151.30834	0.006187	152.12826	0.005989
75	E	113.38909	0.778070	113.79481	0.005600	114.19654	0.005546
	V	150.89910	0.413755	151.71004	0.005978	152.51796	0.005786
76	E	114.16171	0.772619	114.56222	0.005451	114.95877	0.005397
	V	151.30708	0.407379	152.10615	0.005776	152.90225	0.005591
77	E	114.92902	0.767313	115.32437	0.005306	115.71579	0.005254
	V	151.70947	0.402394	152.49685	0.005585	153.28131	0.005406
78	E	115.69117	0.762146	116.08141	0.005167	116.46776	0.005117
	V	152.10646	0.396993	152.88233	0.005401	153.65532	0.005228
79	E	116.44828	0.757113	116.83346	0.005033	117.21478	0.004983
	V	152.49823	0.391767	153.26274	0.005226	154.02444	0.005058
80	E	117.20049	0.752210	117.58066	0.004903	117.95701	0.004855
	V	152.88494	0.386710	153.63827	0.005057	154.38882	0.004896
81	E	117.94793	0.747433	118.32313	0.004777	118.69454	0.004730
	V	153.26675	0.381813	154.00905	0.004897	154.74862	0.004740
82	E	118.69070	0.742777	119.06099	0.004656	119.42752	0.004610
	V	153.64383	0.377071	154.37524	0.004742	155.10398	0.004590
83	E	119.42894	0.738239	119.79436	0.004438	120.15605	0.004494
	V	154.01630	0.372478	154.73699	0.004593	155.45504	0.004447
84	E	120.16276	0.733814	120.52334	0.004425	120.88023	0.004381
	V	154.33833	0.368026	155.09442	0.004452	155.80193	0.004309
85	E	120.89226	0.729500	120.84314	0.004314	121.24805	0.004272
	V	154.74804	0.363711	155.44768	0.004315	156.14478	0.004177
86	E	121.61755	0.725292	121.96860	0.004208	122.31603	0.004167
	V	155.10757	0.359527	155.79689	0.004184	156.48372	0.004051
87	E	122.33874	0.721187	122.68508	0.004105	123.02784	0.004064
	V	155.46304	0.355469	156.14217	0.004058	156.81885	0.003928
88	E	123.05592	0.717183	123.39759	0.004004	123.73572	0.003965
	V	155.81457	0.351533	156.48364	0.003936	157.15030	0.003811
89	E	123.76919	0.713276	124.10624	0.003907	124.43978	0.003869
	V	156.16228	0.347713	156.82141	0.003820	157.47817	0.003698
90	E	124.47866	0.709463	124.81111	0.003813	125.14010	0.003775
	V	156.50629	0.344006	157.15559	0.003707	157.80257	0.003589

ECCENTRICITY M		0.73 1ST DIF.	2ND DIF.	0.74 1ST DIF.	2ND DIF.	0.75 1ST DIF.	2ND DIF.
91	E	125.18440	0.705742	0.003721	125.51230	0.701187	0.003685
	V	156.84669	0.340407	0.003599	157.48629	0.330697	0.003485
92	E	125.88651	0.702110	0.003632	126.20589	0.327591	0.003596
	V	157.18361	0.336912	0.003495	157.81360	0.327313	0.003384
93	E	126.58507	0.698564	0.003546	126.90397	0.694080	0.003511
	V	157.151713	0.333518	0.003394	158.13763	0.324027	0.003286
94	E	127.28018	0.695103	0.003461	127.59462	0.690652	0.003428
	V	157.84735	0.330220	0.003298	158.45846	0.320834	0.003193
95	E	127.97190	0.691723	0.003380	128.28193	0.687305	0.003347
	V	158.17436	0.327017	0.003303	158.77620	0.317732	0.003102
96	E	128.66032	0.688422	0.003301	128.96596	0.684037	0.003268
	V	158.49827	0.323903	0.003114	159.09691	0.314718	0.003014
97	E	129.34552	0.685199	0.003223	129.64681	0.680845	0.003192
	V	158.81914	0.320877	0.003026	159.40570	0.311788	0.002930
98	E	130.02757	0.682051	0.003148	130.32454	0.677728	0.003117
	V	159.13708	0.317936	0.002941	159.71164	0.308939	0.002849
99	E	130.70655	0.678976	0.003075	130.99522	0.674683	0.003045
	V	159.45215	0.315076	0.002860	160.01781	0.306170	0.002769
100	E	131.38252	0.675973	0.003003	131.67693	0.671710	0.002973
	V	159.76445	0.312295	0.002781	160.32129	0.303477	0.002693
101	E	132.05556	0.673040	0.002933	132.33573	0.668805	0.002905
	V	160.07404	0.309590	0.002705	160.62214	0.300857	0.002620
102	E	132.72573	0.670174	0.002866	133.00570	0.665967	0.002838
	V	160.38100	0.306959	0.002631	160.92645	0.298310	0.002547
103	E	133.39311	0.667374	0.002800	133.66689	0.663195	0.002772
	V	160.68540	0.304400	0.002559	161.21628	0.295831	0.002479
104	E	134.05775	0.664639	0.002735	134.32538	0.660486	0.002709
	V	160.98731	0.301910	0.002490	161.50570	0.293420	0.002411
105	E	134.71972	0.661967	0.002672	134.98722	0.657840	0.002646
	V	161.28680	0.299487	0.002423	161.80678	0.291073	0.002347
106	E	135.37907	0.659357	0.002610	135.64248	0.655255	0.002585
	V	161.58393	0.297130	0.002357	162.08557	0.288790	0.002283
107	E	136.03588	0.656806	0.002551	136.29520	0.652729	0.002526
	V	161.87876	0.294836	0.002294	162.37613	0.286568	0.002222
108	E	136.69019	0.654314	0.002492	136.94547	0.650262	0.002467
	V	162.17136	0.292623	0.002233	162.66654	0.284405	0.002163
109	E	137.34207	0.651880	0.002434	137.59532	0.647851	0.002411
	V	162.46179	0.290429	0.002174	162.94584	0.282300	0.002105
110	E	137.99157	0.649501	0.002379	138.23181	0.645495	0.002356
	V	162.75011	0.288314	0.002115	163.22509	0.280251	0.002049
111	E	138.63875	0.647177	0.002324	138.88501	0.643194	0.002301
	V	163.03636	0.286254	0.002060	163.50535	0.278257	0.001994
112	E	139.28366	0.644907	0.002270	139.52195	0.640946	0.002248
	V	163.32061	0.284250	0.002004	163.77766	0.276315	0.001942
113	E	139.92635	0.642689	0.002218	140.1670	0.638750	0.002196
	V	163.60291	0.282298	0.001952	164.05509	0.274425	0.001890
114	E	140.56687	0.640523	0.002166	140.79131	0.636604	0.002146
	V	163.88331	0.280398	0.001900	164.32567	0.272584	0.001841
115	E	141.20528	0.638407	0.002116	141.43181	0.634508	0.002096
	V	164.16186	0.278548	0.001850	164.59546	0.270792	0.001792
116	E	141.84162	0.636340	0.002067	142.06528	0.632461	0.002047
	V	164.43860	0.276748	0.001800	164.86551	0.269048	0.001744
117	E	142.47594	0.634321	0.002019	142.69174	0.630462	0.001999
	V	164.71360	0.274994	0.001754	165.1386	0.267350	0.001698
118	E	143.10829	0.632350	0.001971	143.32525	0.628510	0.001952
	V	164.98689	0.273288	0.001706	165.39556	0.265696	0.001654
119	E	143.73871	0.630425	0.001925	143.95085	0.626603	0.001907
	V	165.25851	0.271626	0.001662	165.6665	0.264087	0.001609
120	E	144.36726	0.628545	0.001880	144.57159	0.624742	0.001861
	V	165.52852	0.270009	0.001617	165.92517	0.262520	0.001567

ECCENTRICITY
M

		0.76 1ST DIF.	2ND DIF.	0.77 1ST DIF.	2ND DIF.	0.78 1ST DIF.	2ND DIF.
1	E	4.15514	4.33399	4.33399	4.52874	4.52874	4.52874
2	V	11.22109	11.98479	11.98479	12.83456	12.83456	12.83456
3	E	8.24337	8.58811	8.58811	8.96152	8.96152	8.96152
4	V	22.08420	23.53255	23.53255	25.13186	25.13186	25.13186
5	E	12.0814	13.64775	13.64775	13.22145	13.22145	13.22145
6	V	32.30179	34.30336	34.30336	36.49002	36.49002	36.49002
7	E	16.00954	16.61499	16.61499	17.26040	17.26040	17.26040
8	V	41.69530	44.10264	44.10264	46.70132	46.70132	46.70132
9	E	19.62523	20.32167	20.32167	21.05780	21.05780	21.05780
10	V	8.498584	8.89426	8.89426	9.27832	9.27832	9.27832
11	E	23.04760	23.81188	23.81188	24.61335	24.61335	24.61335
12	V	57.80820	60.4637	60.4637	63.64235	63.64235	63.64235
13	E	26.27942	27.09242	27.09242	27.93898	27.93898	27.93898
14	V	64.59831	67.51517	67.51517	70.56592	70.56592	70.56592
15	E	39.32981	40.17640	40.17640	41.05232	41.05232	41.05232
16	V	70.64745	73.58547	73.58547	76.63445	76.63445	76.63445
17	E	32.21117	33.07968	33.07968	33.97371	33.97371	33.97371
18	V	76.04468	78.96515	78.96515	81.97631	81.97631	81.97631
19	E	34.93708	35.81868	35.81868	36.72213	36.72213	36.72213
20	V	80.87519	83.75313	83.75313	86.70458	86.70458	86.70458
21	E	37.52113	38.40918	38.40918	39.31574	39.31574	39.31574
22	V	85.21590	88.03590	88.03590	90.91520	90.91520	90.91520
23	E	39.97619	40.86576	40.86576	41.77086	41.77086	41.77086
24	V	89.13402	91.88720	91.88720	94.68806	94.68806	94.68806
25	E	42.31413	43.20155	43.20155	44.10190	44.10190	44.10190
26	V	92.68717	95.36901	95.36901	98.08911	98.08911	98.08911
27	E	44.54572	45.42826	45.42826	46.32149	46.32149	46.32149
28	V	95.52434	98.53318	98.53318	101.57660	101.57660	101.57660
29	E	46.68060	47.535628	47.535628	48.444069	48.444069	48.444069
30	V	98.88695	101.42299	101.42299	103.98350	103.98350	103.98350
31	E	48.72736	49.59472	49.59472	50.46913	50.46913	50.46913
32	V	101.61001	104.07461	104.07461	106.55869	106.55869	106.55869
33	E	50.69366	51.55166	51.55166	52.41523	52.41523	52.41523
34	V	104.12315	106.51839	106.51839	108.92905	108.92905	108.92905
35	E	52.58629	53.43419	53.43419	54.28639	54.28639	54.28639
36	V	106.45147	108.77984	108.77984	111.12032	111.12032	111.12032
37	E	54.41130	55.24860	55.24860	56.08909	56.08909	56.08909
38	V	108.61639	110.88055	110.88055	113.15415	113.15415	113.15415
39	E	56.17409	57.00044	57.00044	57.82903	57.82903	57.82903
40	V	110.63615	112.83888	112.83888	115.04893	115.04893	115.04893
41	E	57.87944	58.69467	58.69467	59.51128	59.51128	59.51128
42	V	112.52645	114.67048	114.67048	116.81992	116.81992	116.81992
43	E	59.53167	60.33567	60.33567	61.14032	61.14032	61.14032
44	V	114.30080	116.38879	116.38879	118.48072	118.48072	118.48072
45	E	61.13464	61.92738	61.92738	62.72013	62.72013	62.72013
46	V	115.97088	118.00542	118.00542	120.42527	120.42527	120.42527
47	E	62.69179	63.47332	63.47332	64.25430	64.25430	64.25430
48	V	117.54688	119.53041	119.53041	121.51564	121.51564	121.51564
49	E	64.20627	64.97666	64.97666	65.74601	65.74601	65.74601
50	V	119.03766	120.37251	120.37251	122.90822	122.90822	122.90822
51	E	65.68089	66.44026	66.44026	67.19816	67.19816	67.19816
52	V	120.45100	122.33936	122.33936	124.22790	124.22790	124.22790
53	E	67.11821	67.86671	67.86671	68.61334	68.61334	68.61334
54	V	121.79375	123.63768	123.63768	125.48123	125.48123	125.48123
55	E	68.52057	69.25833	69.25833	69.99390	69.99390	69.99390
56	V	123.07195	124.82608	124.82608	126.67400	126.67400	126.67400
57	E	69.89007	70.61728	70.61728	71.34199	71.34199	71.34199
58	V	124.23096	126.05174	126.05174	127.81130	127.81130	127.81130
59	E	71.22866	71.94548	71.94548	72.65954	72.65954	72.65954
60	V	125.45556	127.17738	127.17738	128.89767	128.89767	128.89767

ECCENTRICITY

		0 ⁷⁶ 1ST DIF.	2ND DIF.	0 ⁷⁷ 1ST DIF.	2ND DIF.	0 ⁷⁸ 1ST DIF.	2ND DIF.
31	E	1.309446	0.029144	73.24472	1.299240	73.94834	1.288801
	V	1.114434	0.050161	128.5445	1.077076	129.93713	1.039466
32	E	1.281929	0.027517	74.11663	1.271904	75.21002	1.261675
	V	1.068084	0.046350	129.88668	1.032227	130.93330	0.996167
33	E	1.255906	0.026023	75.76269	1.246064	76.44606	1.236042
	V	1.025158	0.042926	130.77739	0.990709	131.88940	0.956098
34	E	76.30720	0.024646	76.58429	1.221601	77.65784	1.211783
	V	1.29.64855	0.039842	131.22958	0.952189	132.88033	0.918934
35	E	77.51509	0.023373	78.18270	1.198408	78.84663	1.188789
	V	1.207887	0.037056	132.14595	0.916374	133.69272	0.884390
36	E	1.948260	0.023705	79.35909	1.176390	80.01360	1.166965
	V	1.185690	0.022197	79.35909	1.176390	80.01360	1.166965
37	E	0.913727	0.034533	133.02896	0.883009	134.54434	0.852215
	V	1.164585	0.021105	80.51455	1.155499	81.15982	1.146225
38	E	0.881486	0.032241	133.88083	0.851865	135.36713	0.822190
	V	1.144492	0.020093	81.85009	1.135538	82.28631	1.126488
39	E	0.851331	0.030155	134.70357	0.822743	136.16125	0.794118
	V	1.123343	0.019149	82.76664	1.116555	83.39399	1.107685
40	E	0.823079	0.028252	135.49903	0.795464	136.62907	0.767828
	V	1.107071	0.018272	83.86509	1.098466	84.48374	1.089750
41	E	0.796567	0.026512	136.26890	0.769871	137.67224	0.743164
	V	1.089620	0.017451	84.94624	1.081153	85.55637	1.072626
42	E	0.771651	0.024916	137.01472	0.745820	138.39223	0.719990
	V	1.072935	0.016685	86.01086	1.064623	86.61263	1.056258
43	E	0.748199	0.023452	137.73791	0.723186	139.09041	0.698184
	V	1.056967	0.015968	87.05967	1.048805	87.65323	1.040598
44	E	0.726094	0.022105	138.43977	0.701856	139.76805	0.677634
	V	1.041672	0.015295	88.03332	1.033655	88.64783	1.025601
45	E	0.705231	0.020863	139.12149	0.681725	140.42629	0.658243
	V	1.027009	0.014663	89.11246	1.019133	89.69005	1.011227
46	E	0.685515	0.019716	139.73419	0.662703	141.06621	0.639920
	V	1.012939	0.014070	90.11766	1.005200	90.68749	0.997437
47	E	0.668861	0.018654	140.42890	0.644707	141.68879	0.622585
	V	0.999428	0.013511	91.10948	0.991822	91.67169	0.984197
48	E	0.649190	0.017671	141.03656	0.627660	142.229496	0.606166
	V	0.986444	0.012984	92.03805	0.978966	92.64316	0.971475
49	E	0.632431	0.016759	141.68805	0.611494	142.88556	0.590596
	V	0.973957	0.012487	93.03505	0.966604	93.60240	0.959241
50	E	0.616521	0.015910	142.26420	0.596147	143.46137	0.575815
	V	0.961940	0.012017	94.00976	0.954707	94.54987	0.947469
51	E	0.601400	0.015121	142.84576	0.581563	144.02314	0.561768
	V	0.950367	0.011573	94.91301	0.943251	95.48601	0.936133
52	E	0.587016	0.014384	143.4345	0.567689	144.57154	0.548405
	V	0.939214	0.011153	95.80522	0.932121	96.44112	0.925210
53	E	0.573319	0.013677	143.96793	0.554478	145.10723	0.535682
	V	0.928460	0.010754	96.80679	0.921566	97.32589	0.914678
54	E	0.560264	0.013055	144.50982	0.541887	145.63078	0.523555
	V	0.918084	0.010376	97.7808	0.911296	98.23041	0.904517
55	E	0.547811	0.012453	145.01969	0.529876	146.14277	0.511987
	V	0.908066	0.010018	98.6946	0.901382	99.12512	0.894708
56	E	0.535922	0.011889	145.51810	0.518409	146.64371	0.500943
	V	0.898390	0.009676	99.5127	0.891805	100.01035	0.885234
57	E	0.524561	0.011361	146.01555	0.507452	147.13410	0.490390
	V	0.889039	0.009351	100.31382	0.882550	100.88643	0.876078
58	E	0.513697	0.010864	146.56253	0.496974	147.61440	0.480297
	V	0.879996	0.009043	101.26742	0.873602	101.75366	0.867224
59	E	0.503300	0.010397	147.01947	0.486946	148.08504	0.470639
	V	0.871248	0.008748	102.1237	0.864945	102.61232	0.858660
60	E	0.493344	0.009956	147.52682	0.477343	148.54642	0.461389
	V	0.862782	0.008466	102.98893	0.856566	103.46269	0.850371
	V	0.483801	0.009543	147.95496	0.468140	148.99895	0.452524

ECCENTRICITY M	0.76		0.77		0.78				
	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.			
61	E 103.36541	0.854583	0.008199	103.83738	0.848453	0.008113	104.30503	0.842344	0.0080273
	V 147.45377	0.746650	0.009151	148.45427	0.459313	0.008827	149.44297	0.444021	0.0085050
62	E 104.21205	0.846641	0.007942	104.67798	0.840593	0.007860	105.13960	0.834569	0.007775
	V 147.92964	0.845868	0.008782	148.90511	0.450843	0.008470	149.87883	0.455862	0.008159
63	E 105.05099	0.838943	0.007698	105.51095	0.832976	0.007617	105.96663	0.827034	0.007535
	V 148.38708	0.457436	0.008432	149.34782	0.442709	0.008134	150.30686	0.428026	0.007836
64	E 105.88247	0.831480	0.007463	106.33654	0.825591	0.007385	106.78636	0.819728	0.007306
	V 148.83641	0.849334	0.008102	149.78271	0.434894	0.007815	150.12736	0.420497	0.007529
65	E 106.70672	0.824427	0.007238	107.15497	0.818428	0.007163	107.59900	0.812641	0.007087
	V 149.27796	0.441544	0.007790	150.21010	0.427380	0.007514	151.14062	0.413259	0.007238
66	E 107.52393	0.817218	0.007024	107.96645	0.811478	0.006950	108.40477	0.803766	0.006875
	V 149.71201	0.834051	0.007493	150.63025	0.420152	0.007228	151.54691	0.406295	0.006964
67	E 108.33433	0.810401	0.006817	108.77118	0.804732	0.006746	109.20386	0.799092	0.006674
	V 150.13885	0.426839	0.007212	151.04344	0.413195	0.006957	151.94650	0.399592	0.006703
68	E 109.13812	0.803782	0.006619	109.56936	0.798181	0.006551	109.99647	0.792611	0.006481
	V 150.55874	0.419895	0.006944	151.44994	0.406496	0.006699	152.33964	0.393137	0.006455
69	E 109.93547	0.797352	0.006530	110.36118	0.791819	0.006362	110.78279	0.786317	0.006294
	V 150.97194	0.413204	0.006691	151.84998	0.400041	0.006455	152.72656	0.386918	0.006219
70	E 110.72657	0.791105	0.006247	111.14682	0.785637	0.006182	111.56299	0.780201	0.006116
	V 151.37870	0.406754	0.006502	152.24380	0.393819	0.006228	153.10748	0.380922	0.005996
71	E 111.51161	0.785033	0.006072	112.92645	0.779629	0.006000	112.33724	0.774427	0.005944
	V 151.77923	0.400535	0.006519	152.63162	0.387818	0.006001	153.48262	0.375140	0.005782
72	E 112.29074	0.779130	0.005903	112.70024	0.773787	0.005842	113.10572	0.768478	0.005779
	V 152.17377	0.394533	0.006002	153.01365	0.382028	0.005790	153.85218	0.369561	0.005579
73	E 113.06413	0.773389	0.005741	113.46834	0.768106	0.005681	114.26259	0.762857	0.005621
	V 152.56251	0.388374	0.005792	153.39009	0.376439	0.005589	154.21635	0.364175	0.005386
74	E 113.83193	0.767805	0.005584	114.23092	0.762580	0.005526	114.62597	0.757390	0.005467
	V 152.94566	0.383147	0.005594	153.76113	0.371042	0.005397	154.57533	0.358973	0.005302
75	E 114.59430	0.762371	0.005494	114.98812	0.750573	0.005377	115.37804	0.745209	0.005321
	V 153.32340	0.377782	0.005404	154.12696	0.365828	0.005234	154.99298	0.353948	0.005205
76	E 115.35138	0.757082	0.005289	115.74009	0.751969	0.005234	116.12493	0.746891	0.005178
	V 153.65992	0.375220	0.005223	154.48774	0.360788	0.005040	155.27837	0.349090	0.004858
77	E 116.10332	0.751933	0.005149	116.48697	0.746874	0.005095	116.86678	0.7431850	0.005041
	V 154.06339	0.367470	0.005150	154.84366	0.355915	0.004873	155.62276	0.3434394	0.004696
78	E 116.85029	0.746920	0.005013	117.22888	0.741912	0.004962	117.60372	0.736941	0.004909
	V 154.42597	0.362586	0.004884	155.19486	0.351202	0.004713	155.96261	0.339851	0.004543
79	E 117.59227	0.742036	0.004884	117.96596	0.737080	0.004832	118.33588	0.732160	0.004781
	V 154.78383	0.357879	0.004725	155.54150	0.346642	0.004560	156.23807	0.334555	0.004396
80	E 118.32955	0.737179	0.004757	118.69833	0.732372	0.004708	119.06338	0.727502	0.004658
	V 155.13712	0.353287	0.004574	155.88373	0.342228	0.004414	156.62926	0.331200	0.004255
81	E 119.06220	0.732644	0.004635	119.42612	0.727785	0.004587	119.78635	0.722963	0.004539
	V 155.48598	0.348859	0.004428	156.22169	0.337954	0.004274	156.93635	0.727080	0.004420
82	E 119.73032	0.728126	0.004518	120.14943	0.723314	0.004471	120.50488	0.718539	0.004424
	V 155.83050	0.344570	0.004289	156.55550	0.333815	0.004139	157.27944	0.323090	0.003990
83	E 120.51404	0.723723	0.004403	120.86839	0.718956	0.004358	121.21911	0.714227	0.004312
	V 156.17097	0.340414	0.004156	156.88531	0.329805	0.004010	157.59866	0.319224	0.003866
84	E 121.23347	0.719430	0.004293	121.58310	0.714707	0.004249	121.92913	0.710222	0.004205
	V 156.50735	0.336387	0.004017	157.21122	0.325918	0.003887	157.91413	0.315476	0.003748
85	E 121.94872	0.715243	0.004187	122.29366	0.710564	0.004143	122.63506	0.705922	0.004100
	V 156.83984	0.332484	0.003903	157.53337	0.322150	0.003768	158.22598	0.311843	0.003633
86	E 122.65988	0.711660	0.004083	123.00018	0.7076523	0.004041	123.33698	0.701924	0.003998
	V 157.16854	0.328669	0.003785	157.85187	0.318496	0.003654	158.53430	0.308320	0.003523
87	E 123.36705	0.707177	0.003983	123.70276	0.702581	0.003942	124.03500	0.698023	0.003901
	V 157.49356	0.325027	0.003685	158.16682	0.314952	0.003544	158.83920	0.304903	0.003417
88	E 124.07035	0.703292	0.003885	124.40150	0.698736	0.003845	124.72922	0.694218	0.003805
	V 157.81035	0.321465	0.003562	158.47834	0.311514	0.003438	159.14079	0.301588	0.003315
89	E 124.76985	0.699500	0.003792	125.09648	0.694983	0.003753	125.41972	0.690504	0.003314
	V 158.13304	0.318008	0.003457	158.78651	0.308177	0.003337	159.43916	0.298370	0.003218
90	E 125.44565	0.693800	0.003700	125.78780	0.691321	0.003662	126.10661	0.686880	0.003246
	V 158.44769	0.314653	0.003355	159.09145	0.304938	0.003239	159.73441	0.295246	0.003124

ECCENTRICITY M		0.76		0.77		0.78	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
91	E	126.15784	0.692189	126.47555	0.687747	126.78995	0.683344
	V	158.75908	0.311396	159.39324	0.301793	160.02662	0.292214
92	E	126.84650	0.688665	127.15981	0.684259	127.46984	0.679891
	V	159.06732	0.308232	159.69198	0.298739	160.31589	0.289268
93	E	127.53172	0.685224	127.84066	0.680853	128.14636	0.676520
	V	159.37248	0.305160	159.98776	0.295773	160.60230	0.286407
94	E	128.21359	0.681864	128.51819	0.677528	128.81959	0.673230
	V	159.67465	0.302175	160.28065	0.292891	160.88592	0.283628
95	E	128.89217	0.678584	129.19247	0.674281	129.48960	0.670016
	V	159.97393	0.299275	160.57074	0.290090	161.16685	0.280927
96	E	129.56755	0.675381	129.86358	0.671110	130.15648	0.666878
	V	160.27038	0.296456	160.85811	0.287369	161.44515	0.278301
97	E	130.23981	0.672352	130.53160	0.668014	130.82030	0.663814
	V	160.56410	0.293716	161.14283	0.284723	161.72090	0.275749
98	E	130.90900	0.669197	131.19658	0.664990	131.48412	0.660821
	V	160.85515	0.291052	161.42498	0.282151	161.99417	0.273268
99	E	131.57522	0.666213	131.85862	0.662036	132.13902	0.657897
	V	161.14361	0.288462	161.70463	0.279650	162.26503	0.270856
100	E	132.23851	0.663298	132.51777	0.659150	132.79406	0.655041
	V	161.42956	0.285943	161.98185	0.277217	162.53354	0.268509
101	E	132.89896	0.660451	133.17410	0.656332	133.44631	0.652251
	V	161.71305	0.283494	162.25670	0.274851	162.79976	0.266227
102	E	133.55663	0.657669	133.82768	0.653578	134.09583	0.649526
	V	161.99416	0.281111	162.52925	0.272550	163.06377	0.264007
103	E	134.21158	0.654952	134.47857	0.650888	134.74270	0.646863
	V	162.27295	0.278792	162.79956	0.270311	163.32561	0.261847
104	E	134.86388	0.652297	135.12683	0.648260	135.38696	0.644262
	V	162.54949	0.276537	163.06769	0.268132	163.55836	0.259745
105	E	135.51358	0.649703	135.77252	0.645692	136.02868	0.641720
	V	162.82383	0.274342	163.33370	0.266103	163.84306	0.257699
106	E	136.16075	0.647168	136.41570	0.643183	136.66792	0.639237
	V	163.09604	0.272206	163.59765	0.263994	164.09877	0.255709
107	E	136.80544	0.644692	137.05644	0.640732	137.30473	0.636810
	V	163.36616	0.270127	163.85959	0.261941	164.35254	0.253771
108	E	137.44772	0.642273	137.69477	0.638337	137.93917	0.634440
	V	163.63427	0.268103	164.11958	0.259987	164.60442	0.251885
109	E	138.08763	0.639910	138.33077	0.635997	138.57129	0.632124
	V	163.90040	0.266134	164.37767	0.258084	164.85447	0.250049
110	E	138.72523	0.637600	138.96448	0.633711	139.20115	0.629861
	V	164.16462	0.264216	164.63390	0.256232	165.10274	0.248282
111	E	139.36057	0.635344	139.59596	0.631478	139.82880	0.627649
	V	164.42697	0.262350	164.88833	0.254429	165.34926	0.246522
112	E	139.99371	0.633140	140.22526	0.629296	140.45429	0.625489
	V	164.68750	0.260533	165.14100	0.252674	165.59409	0.244828
113	E	140.62470	0.630987	140.85242	0.627164	141.07767	0.623379
	V	164.94626	0.258764	165.39197	0.250965	165.83727	0.243179
114	E	141.25358	0.628884	141.47750	0.625081	141.69899	0.621317
	V	165.20330	0.257041	165.64127	0.249301	166.07884	0.241573
115	E	141.88041	0.626829	142.10055	0.623047	142.31829	0.619303
	V	165.45867	0.255364	165.88895	0.247681	166.31885	0.240010
116	E	142.50523	0.624822	142.72161	0.621060	142.93563	0.617336
	V	165.71240	0.253732	166.13505	0.246103	166.55733	0.238487
117	E	143.12810	0.622861	143.34073	0.619119	143.55104	0.615415
	V	165.96454	0.252142	166.37962	0.244568	166.79434	0.237003
118	E	143.74904	0.620947	143.95795	0.617224	144.16458	0.613538
	V	166.21514	0.250594	166.62269	0.243073	167.02990	0.235562
119	E	144.36812	0.619078	144.57332	0.615373	144.77622	0.611706
	V	166.46423	0.249088	166.86431	0.241617	167.26406	0.234157
120	E	144.98537	0.617252	145.18689	0.613565	145.38620	0.609916
	V	166.71185	0.247621	167.10451	0.240200	167.49685	0.232789

ECCENTRICITY
M

		0.76 1ST DIF.	2ND DIF.	0.77 1ST DIF.	2ND DIF.	0.78 1ST DIF.	2ND DIF.
121	E	145.60084	0.001782	145.79869	0.001782	145.99437	0.001782
122	V	166.95804	0.001428	167.34333	0.001428	167.72830	0.001428
123	E	148.21457	0.001740	146.40877	0.001740	146.60083	0.001740
124	V	167.20284	0.001390	167.58080	0.001390	167.95847	0.001390
125	E	146.82660	0.001698	147.01716	0.001698	147.20563	0.001698
126	V	167.44629	0.001352	167.81697	0.001352	168.18736	0.001352
127	E	147.43698	0.001657	147.62392	0.001657	147.80881	0.001657
128	V	167.68843	0.001317	168.05187	0.001317	168.41504	0.001317
129	E	148.04574	0.001617	148.22907	0.001617	148.41039	0.001617
130	V	167.92928	0.001281	168.28553	0.001281	168.64151	0.001281
131	E	148.65322	0.001578	148.83267	0.001578	149.01044	0.001578
132	V	168.16889	0.001247	168.51799	0.001247	168.86682	0.001247
133	E	149.25856	0.001538	149.43474	0.001538	149.61044	0.001538
134	V	168.40728	0.001213	168.74927	0.001213	169.09101	0.001213
135	E	149.86270	0.001501	150.03532	0.001501	150.20603	0.001501
136	V	169.64449	0.001180	169.81941	0.001180	169.99409	0.001180
137	E	150.46538	0.001463	150.63445	0.001463	150.80166	0.001463
138	V	168.88056	0.001148	169.20845	0.001148	169.53609	0.001148
139	E	151.06663	0.001427	151.23218	0.001427	151.39589	0.001427
140	V	169.11551	0.001116	169.43640	0.001116	169.75706	0.001116
141	E	151.66649	0.001390	151.82852	0.001390	151.98876	0.001390
142	V	169.34937	0.001085	169.66331	0.001085	169.97702	0.001085
143	E	152.26500	0.001354	152.42352	0.001354	152.58030	0.001354
144	V	169.58218	0.001054	169.88919	0.001054	170.19599	0.001054
145	E	152.86219	0.001319	153.01722	0.001319	153.17054	0.001319
146	V	169.81396	0.001025	170.11409	0.001025	170.41401	0.001025
147	E	154.64618	0.001284	153.60365	0.001284	153.75953	0.001284
148	V	170.50346	0.000939	170.78311	0.000939	171.06258	0.000939
149	E	155.23843	0.001184	155.37963	0.001184	155.51926	0.001184
150	V	170.95851	0.000912	171.00432	0.000912	171.27704	0.000912
151	E	155.82954	0.001151	155.96730	0.001151	156.10354	0.001151
152	V	170.95851	0.000885	171.22468	0.000885	171.49067	0.000885
153	E	156.41952	0.001118	156.55387	0.001118	156.68672	0.001118
154	V	171.18474	0.000859	171.44420	0.000859	171.70349	0.000859
155	E	157.00842	0.001087	157.13935	0.001087	157.26884	0.001087
156	V	171.41013	0.000833	171.66292	0.000833	171.91954	0.000833
157	E	157.59626	0.001055	157.72380	0.001055	157.84992	0.001055
158	V	171.63472	0.000807	171.88086	0.000807	172.12684	0.000807
159	E	158.18308	0.001024	158.30723	0.001024	158.42999	0.001024
160	V	171.85852	0.000782	172.09804	0.000782	172.33741	0.000782
161	E	158.76890	0.000994	158.88967	0.000994	159.00909	0.000994
162	V	172.08157	0.000757	172.31449	0.000757	172.54727	0.000757
163	E	159.35376	0.001096	159.47116	0.001096	159.58725	0.001096
164	V	172.30388	0.000734	172.53023	0.000734	172.75644	0.000734
165	E	159.93769	0.000934	160.05173	0.000934	160.16449	0.000934
166	V	172.52549	0.000709	172.74529	0.000709	172.96496	0.000709
167	E	160.52071	0.000904	160.63140	0.000904	160.74085	0.000904
168	V	172.74640	0.000686	172.95968	0.000686	173.17283	0.000686
169	E	161.10286	0.000874	161.21020	0.000874	161.31635	0.000874
170	V	172.96666	0.000662	173.17344	0.000662	173.38009	0.000662
171	E	161.68416	0.000846	161.78817	0.000846	161.89101	0.000846
172	V	173.18628	0.000639	173.38658	0.000639	173.58675	0.000639
173	E	162.26465	0.000817	162.36533	0.000817	162.46488	0.000817
174	V	173.40528	0.000617	173.59911	0.000617	173.79283	0.000617
175	E	162.84435	0.000789	162.94170	0.000789	163.03797	0.000789
176	V	173.62336	0.000595	173.81108	0.000595	173.99836	0.000595

ECCENTRICITY
M

		0.76 DIF.	2ND DIF.	1.77 DIF.	2ND DIF.	0.78 DIF.	2ND DIF.
151	E	163.42328	0.000761	163.51733	0.000754	163.61032	0.000746
	V	173.84152	0.000573	0.211411	0.000554	0.572347	0.000746
152	E	164.00149	0.000733	164.09222	0.000726	174.20336	0.000535
	V	174.05880	0.000551	0.574897	0.000726	174.20336	0.000535
153	E	164.57899	0.000705	174.66642	0.000698	164.18195	0.000719
	V	174.27555	0.000530	0.210366	0.000698	174.40783	0.000514
154	E	165.15580	0.000678	165.23995	0.000672	164.75288	0.000692
	V	174.49180	0.000509	0.573527	0.000672	174.61182	0.000495
155	E	165.73197	0.000651	165.81283	0.000645	174.81533	0.000665
	V	174.70755	0.000488	0.572882	0.000645	174.81533	0.000665
156	E	166.30752	0.000624	166.39510	0.000618	165.89279	0.000639
	V	174.92284	0.000467	0.572264	0.000618	175.01838	0.000456
157	E	166.88247	0.000598	166.97196	0.000592	166.46181	0.000612
	V	175.13768	0.000447	0.208951	0.000592	175.22100	0.000436
158	E	167.45684	0.000571	167.52787	0.000566	175.22100	0.000436
	V	175.35209	0.000427	0.571106	0.000566	175.22100	0.000436
159	E	168.03067	0.000546	168.11062	0.000540	175.22100	0.000436
	V	175.56610	0.000406	0.570556	0.000540	175.22100	0.000436
160	E	168.60398	0.000519	168.68849	0.000514	168.73228	0.000510
	V	175.79722	0.000387	0.570052	0.000514	176.02748	0.000362
161	E	169.17680	0.000493	169.23806	0.000488	176.02748	0.000362
	V	175.99298	0.000368	0.569564	0.000488	169.29863	0.000483
162	E	169.74915	0.000467	170.11062	0.000463	176.22820	0.000343
	V	176.20588	0.000348	0.569101	0.000463	176.22820	0.000343
163	E	170.32106	0.000443	170.37582	0.000438	169.86451	0.000459
	V	176.41846	0.000329	0.568663	0.000438	176.22820	0.000343
164	E	170.89255	0.000416	170.94407	0.000413	176.22820	0.000343
	V	176.63073	0.000309	0.568250	0.000413	176.22820	0.000343
165	E	171.46365	0.000392	171.51193	0.000388	176.22820	0.000343
	V	176.84270	0.000291	0.567862	0.000388	176.22820	0.000343
166	E	172.03439	0.000366	172.07943	0.000363	176.22820	0.000343
	V	177.05441	0.000272	0.567499	0.000363	176.22820	0.000343
167	E	172.60478	0.000342	172.64659	0.000338	176.22820	0.000343
	V	177.26586	0.000253	0.567161	0.000338	176.22820	0.000343
168	E	173.17485	0.000316	173.21344	0.000245	176.22820	0.000343
	V	177.47707	0.000235	0.566848	0.000245	176.22820	0.000343
169	E	173.74464	0.000292	173.78000	0.000289	176.22820	0.000343
	V	177.68807	0.000216	0.566559	0.000289	176.22820	0.000343
170	E	174.31415	0.000267	174.34629	0.000265	176.22820	0.000343
	V	177.89887	0.000198	0.566294	0.000265	176.22820	0.000343
171	E	174.88343	0.000243	174.91235	0.000191	176.22820	0.000343
	V	178.10950	0.000179	0.566054	0.000191	176.22820	0.000343
172	E	175.45248	0.000218	175.47819	0.000174	176.22820	0.000343
	V	178.31996	0.000162	0.565838	0.000174	176.22820	0.000343
173	E	176.02135	0.000194	176.04383	0.000156	176.22820	0.000343
	V	178.53028	0.000143	0.565646	0.000156	176.22820	0.000343
174	E	176.59004	0.000169	176.60931	0.000138	176.22820	0.000343
	V	178.74047	0.000125	0.565478	0.000138	176.22820	0.000343
175	E	177.15859	0.000145	177.17464	0.000122	176.22820	0.000343
	V	178.95056	0.000107	0.565334	0.000122	176.22820	0.000343
176	E	177.72702	0.000121	177.73986	0.000103	176.22820	0.000343
	V	179.16055	0.000090	0.565215	0.000103	176.22820	0.000343
177	E	178.29535	0.000096	178.30498	0.000087	176.22820	0.000343
	V	179.37048	0.000071	0.565119	0.000087	176.22820	0.000343
178	E	178.86361	0.000073	178.87003	0.000072	176.22820	0.000343
	V	179.58035	0.000054	0.565047	0.000072	176.22820	0.000343
179	E	179.43181	0.000048	179.43502	0.000051	176.22820	0.000343
	V	179.79018	0.000035	0.565000	0.000051	176.22820	0.000343
180	E	180.00000	0.000024	180.00000	0.000024	176.22820	0.000343
	V	180.00000	0.000018	0.564976	0.000024	176.22820	0.000343
				0.203662	0.000017	180.00000	0.000017

ECCENTRICITY M		0.79		2ND DIF.		0.80		2ND DIF.		0.81		2ND DIF.	
		1ST DIF.				1ST DIF.				1ST DIF.			
1	E	4.74155	4.97500			4.833635	5.23217			5.058650			
2	V	13.78426	14.85069			14.020486	16.05431			15.009701			
3	E	9.36705	9.80864			14.587384	10.29082			4.762849			
4	V	26.90325	28.87118			12.630451	31.06401			13.308492			
5	E	13.118993	14.39602			12.630451	15.05367			4.411796			
6	V	38.88206	41.50163			11.030405	44.37250			11.420578			
7	E	17.94867	18.68273			9.473850	55.79308			4.056994			
8	V	45.50619	52.53203			9.473850	23.52246			9.58012			
9	E	21.83552	22.65658			9.473850	65.45109			3.726601			
10	V	58.77264	62.01171			3.674836	27.24906			8.148884			
11	E	25.45297	26.33147			8.106777	73.59998			3.431442			
12	V	66.79921	70.11848			3.401850	30.68050			6.908830			
13	E	3.366322	79.73326			6.946885	80.50881			3.172834			
14	V	6.950745	77.06537			0.243391	33.85333			5.906358			
15	E	3.138539	82.89172			0.958131	86.41517			2.947901			
16	V	6.041740	83.05350			2.943817	36.80124			5.098290			
17	E	34.89267	35.83554			5.201655	91.51346			2.752395			
18	V	85.07445	88.25515			2.752395	39.55363			4.444228			
19	E	37.64651	38.59075			4.556277	95.95768			0.540462			
20	V	89.72550	92.81143			2.589400	42.13562			2.581989			
21	E	42.23977	41.18015			4.024204	99.86846			3.910772			
22	V	93.84983	96.83564			2.443213	103.4686			2.432777			
23	E	42.69044	43.62336			3.582518	44.56840			3.471685			
24	V	97.53294	100.41815			0.146187	103.34014			2.301417			
25	E	45.01415	45.93717			0.129405	46.86981			3.106781			
26	V	100.84420	103.63112			0.369550	106.44692			2.800629			
27	E	47.22439	48.13590			2.198730	111.78897			1.988866			
28	V	103.83994	106.53236			2.901238	53.12536			0.922659			
29	E	49.33286	50.523180			2.095900	114.10902			2.320052			
30	V	106.56606	109.16851			2.636151	55.03081			0.083412			
31	E	51.34965	52.23538			2.003574	116.23851			1.830033			
32	V	109.06023	111.57748			2.488969	56.86085			0.075421			
33	E	53.28352	54.15567			1.920294	118.20272			1.964217			
34	V	111.35348	113.79031			2.212832	123.29658			1.761528			
35	E	55.14210	56.00051			1.844841	60.32142			1.819889			
36	V	113.47160	115.83263			2.042321	124.77784			1.699043			
37	E	56.93203	57.77676			1.776190	125.07322			1.693049			
38	V	115.43613	117.72576			1.893126	61.96324			1.641824			
39	E	58.65917	59.49019			1.713483	126.17006			1.580919			
40	V	117.26522	119.48755			1.761795	63.55248			1.589237			
41	E	60.32866	61.14618			1.635993	127.48238			1.481255			
42	V	118.97422	121.13309			1.645539	65.58910			1.540742			
43	E	61.94504	62.74928			1.603102	128.07518			1.392224			
44	V	120.57621	122.67518			1.542090	66.18785			1.495880			
45	E	63.51237	64.30357			1.534284	129.89780			1.415533			
46	V	122.08243	124.12477			1.449590	68.04336			1.312321			
47	E	65.03424	65.81266			1.509091	128.07518			1.454257			
48	V	123.50253	125.49128			1.366508	128.72268			1.240298			
49	E	66.51387	67.27979			1.467133	69.45889			1.155118			
50	V	124.84490	126.78285			1.291570	129.89780			1.061935			
51	E	67.95416	68.70786			1.428077	130.4089			1.031956			
52	V	126.11683	128.00656			1.223713	131.01371			1.014500			
53	E	69.35772	70.09949			1.391630	132.18391			0.96119			
54	V	127.32470	129.16861			1.162043	133.08822			0.933769			
55	E	70.72691	71.45704			1.357541	134.05551			0.899031			
56	V	128.47414	130.27441			1.105804	134.05551			0.841633			
57	E	72.06387	72.78262			1.325585	134.05551			0.79903			
58	V	129.57009	131.32876			1.054354	134.05551			0.75118			
59	E	73.37054	74.07819			1.295570	134.05551			0.65180			
60	V	130.61694	132.33591			1.007143	134.05551			0.53974			

ECCENTRICITY

ECCENTRICITY		$1\sigma^{\uparrow}\delta IF.$	2ND DIF.	$1\sigma^{\uparrow}\delta IF.$	2ND DIF.	$1\sigma^{\uparrow}\delta IF.$	2ND DIF.		
31	E	74.64869	1.278154	0.028514	0.028514	75.34551	1.267322	0.028248	0.028248
	V	131.61860	1.001658	0.045193	0.045193	133.29061	0.963701	0.043442	0.043442
32	E	75.89995	1.251263	0.026891	0.026891	76.58420	1.240689	0.026633	0.026633
	V	132.57855	0.959951	0.041707	0.041707	134.22123	0.923619	0.040082	0.040082
33	E	77.12581	1.225859	0.025404	0.025404	77.80174	1.215936	0.025153	0.025153
	V	133.49991	0.921366	0.038585	0.038585	135.10177	0.886546	0.037073	0.037073
34	E	78.32764	1.201823	0.024036	0.024036	78.99148	1.191742	0.023794	0.023794
	V	134.38550	0.885587	0.035779	0.035779	135.96195	0.852176	0.034370	0.034370
35	E	79.50668	1.179047	0.022776	0.022776	80.16168	1.169199	0.022543	0.022543
	V	135.23784	0.852337	0.032250	0.032250	136.78219	0.820240	0.031936	0.031936
36	E	80.66412	1.157434	0.021613	0.021613	81.31049	1.147811	0.021388	0.021388
	V	136.05921	0.821374	0.030963	0.030963	137.57269	0.790504	0.029736	0.029736
37	E	81.80201	1.156897	0.020537	0.020537	82.43798	1.127491	0.020320	0.020320
	V	136.85169	0.792483	0.028891	0.028891	138.33345	0.762762	0.027742	0.027742
38	E	82.91837	1.117358	0.019539	0.019539	83.54514	1.108161	0.019330	0.019330
	V	137.61177	0.765476	0.027007	0.027007	139.07228	0.736830	0.025932	0.025932
39	E	84.01712	1.098745	0.018613	0.018613	84.63389	1.089749	0.018432	0.018432
	V	138.35736	0.740185	0.025291	0.025291	139.78483	0.712548	0.024282	0.024282
40	E	85.09811	1.080995	0.017750	0.017750	85.70308	1.072192	0.017557	0.017557
	V	139.07382	0.716461	0.023724	0.023724	140.47461	0.689772	0.022776	0.022776
41	E	86.16216	1.064048	0.016947	0.016947	86.76351	1.055431	0.016761	0.016761
	V	139.76799	0.694173	0.022288	0.022288	141.14298	0.668374	0.021398	0.021398
42	E	87.21001	1.047852	0.016196	0.016196	87.80293	1.039943	0.021601	0.021601
	V	140.44119	0.673200	0.020973	0.020973	141.79122	0.648240	0.020134	0.020134
43	E	88.24237	1.032357	0.015495	0.015495	88.82702	1.024090	0.015323	0.015323
	V	141.09463	0.653437	0.019763	0.019763	142.42349	0.629268	0.018972	0.018972
44	E	89.25989	1.017520	0.014837	0.014837	89.83544	1.009146	0.014672	0.014672
	V	141.72941	0.634789	0.018648	0.018648	143.03185	0.611366	0.017902	0.017902
45	E	90.26319	1.003299	0.014221	0.014221	90.83179	0.995357	0.014061	0.014061
	V	142.34658	0.617168	0.017621	0.017621	143.62530	0.594450	0.016916	0.016916
46	E	91.25284	0.989657	0.013642	0.013642	91.81366	0.981868	0.013489	0.013489
	V	142.94708	0.600499	0.016669	0.016669	144.20475	0.578448	0.016002	0.016002
47	E	92.22941	0.976560	0.013097	0.013097	92.78258	0.968918	0.012950	0.012950
	V	143.53179	0.584709	0.015790	0.015790	144.76804	0.563290	0.015158	0.015158
48	E	93.19338	0.963976	0.012584	0.012584	93.73906	0.956476	0.012442	0.012442
	V	144.10153	0.569737	0.014972	0.014972	145.31696	0.548915	0.014375	0.014375
49	E	94.14526	0.951875	0.012101	0.012101	94.68357	0.944512	0.011964	0.011964
	V	144.65705	0.555523	0.014214	0.014214	145.85222	0.535269	0.013646	0.013646
50	E	95.08549	0.940232	0.011643	0.011643	95.61657	0.933000	0.011512	0.011512
	V	145.19907	0.542015	0.013508	0.013508	146.37453	0.522300	0.012969	0.012969
51	E	96.01451	0.929020	0.011212	0.011212	96.53848	0.921915	0.011085	0.011085
	V	145.72823	0.529165	0.012850	0.012850	146.88449	0.509963	0.012337	0.012337
52	E	96.93272	0.918216	0.010804	0.010804	97.44972	0.911234	0.010681	0.010681
	V	146.24516	0.516929	0.012236	0.012236	147.38271	0.498214	0.011749	0.011749
53	E	97.84052	0.907800	0.010416	0.010416	98.35065	0.900936	0.010298	0.010298
	V	146.75043	0.505267	0.011662	0.011662	147.86972	0.487016	0.011198	0.011198
54	E	98.73827	0.897750	0.010050	0.010050	99.24165	0.891000	0.009936	0.009936
	V	147.24457	0.494142	0.011125	0.011125	148.34605	0.476333	0.010683	0.010683
55	E	99.62632	0.888049	0.009701	0.009701	100.12306	0.881409	0.009591	0.009591
	V	147.72809	0.483520	0.010622	0.010622	148.81219	0.466133	0.010200	0.010200
56	E	100.50500	0.878679	0.009370	0.009370	100.99521	0.872145	0.009264	0.009264
	V	148.20146	0.473370	0.010150	0.010150	149.26857	0.456386	0.009747	0.009747
57	E	101.37463	0.869623	0.009056	0.009056	101.85840	0.863192	0.008953	0.008953
	V	148.66512	0.463663	0.009707	0.009707	149.71564	0.447064	0.009322	0.009322
58	E	102.23549	0.860868	0.008755	0.008755	102.71293	0.854535	0.008657	0.008657
	V	149.11949	0.454373	0.009290	0.009290	150.15378	0.438142	0.008922	0.008922
59	E	103.08789	0.852398	0.008470	0.008470	103.55909	0.846160	0.008375	0.008375
	V	149.56497	0.445476	0.008897	0.008897	150.58337	0.429596	0.008546	0.008546
60	E	103.93209	0.844200	0.008198	0.008198	104.35375	0.838055	0.008105	0.008105
	V	150.00192	0.436948	0.008528	0.008528	151.00478	0.421405	0.008191	0.008191

ECCENTRICITY M		0.79		0.80		0.81	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
61	E	0.836261	0.007939	0.830206	0.007849	0.824181	0.007758
	V	0.428769	0.008179	0.413548	0.007857	0.398350	0.007535
62	E	0.828571	0.007690	0.822603	0.007603	0.816665	0.007516
	V	0.420920	0.007849	0.406008	0.007540	0.391117	0.007233
63	E	0.821119	0.007452	0.815234	0.007369	0.809380	0.007285
	V	0.413381	0.007539	0.808766	0.007242	0.793070	0.006946
64	E	0.813893	0.007226	0.808089	0.007145	0.802317	0.007063
	V	0.406138	0.007224	0.801807	0.006959	0.787495	0.006676
65	E	0.806884	0.007009	0.801159	0.006930	0.795467	0.006850
	V	0.399173	0.006965	0.385115	0.006692	0.371076	0.006419
66	E	0.800084	0.006800	0.794434	0.006725	0.788819	0.006648
	V	0.392473	0.006700	0.378678	0.006437	0.364899	0.006177
67	E	0.793483	0.006601	0.787907	0.006338	0.782366	0.006453
	V	0.386023	0.006450	0.372481	0.006157	0.358953	0.005946
68	E	0.787073	0.006410	0.781569	0.006038	0.776099	0.006267
	V	0.379812	0.006211	0.366512	0.005969	0.353226	0.005727
69	E	0.780848	0.006225	0.775412	0.006157	0.770012	0.006087
	V	0.373827	0.005985	0.360760	0.005752	0.347707	0.005519
70	E	0.774798	0.006050	0.769430	0.005982	0.764098	0.005914
	V	0.368057	0.005770	0.355215	0.005545	0.342386	0.005321
71	E	0.768919	0.005879	0.763616	0.005814	0.758349	0.005749
	V	0.362492	0.005565	0.349867	0.005348	0.337253	0.005133
72	E	0.763202	0.005717	0.757962	0.005654	0.752759	0.005590
	V	0.357123	0.005369	0.344706	0.005161	0.332300	0.004953
73	E	0.757643	0.005559	0.752464	0.005498	0.747322	0.005437
	V	0.351939	0.005184	0.339723	0.004983	0.327517	0.004783
74	E	0.752234	0.005409	0.747115	0.005349	0.742033	0.005289
	V	0.346932	0.005007	0.334910	0.004813	0.322897	0.004620
75	E	0.746972	0.005262	0.741910	0.005205	0.736886	0.005147
	V	0.342094	0.004838	0.330260	0.004650	0.318434	0.004463
76	E	0.741849	0.005123	0.736844	0.005066	0.731877	0.005009
	V	0.337419	0.004675	0.325765	0.004495	0.314118	0.004316
77	E	0.736862	0.004987	0.731912	0.004932	0.726999	0.004878
	V	0.332897	0.004522	0.321418	0.004347	0.309945	0.004173
78	E	0.732006	0.004856	0.727109	0.004803	0.722249	0.004750
	V	0.328524	0.004373	0.317213	0.004205	0.305908	0.004037
79	E	0.727276	0.004730	0.722430	0.004679	0.717622	0.004627
	V	0.324292	0.004232	0.313144	0.004069	0.302001	0.003907
80	E	0.722668	0.004608	0.717872	0.004558	0.713114	0.004508
	V	0.320195	0.004097	0.309205	0.003939	0.298219	0.003782
81	E	0.718178	0.004490	0.713430	0.004442	0.708721	0.004393
	V	0.316229	0.003966	0.305391	0.003814	0.294556	0.003663
82	E	0.713801	0.004377	0.709101	0.004329	0.704440	0.004281
	V	0.312386	0.003843	0.301696	0.003695	0.291008	0.003548
83	E	0.709535	0.004266	0.704881	0.004220	0.700266	0.004174
	V	0.308663	0.003723	0.298115	0.003581	0.287570	0.003438
84	E	0.705375	0.004160	0.700766	0.004115	0.696196	0.004070
	V	0.305055	0.003608	0.294645	0.003470	0.284236	0.003334
85	E	0.701319	0.004056	0.696753	0.004013	0.692227	0.003969
	V	0.301556	0.003499	0.291280	0.003365	0.281005	0.003231
86	E	0.697362	0.003957	0.692839	0.003914	0.688355	0.003872
	V	0.298163	0.003393	0.288017	0.003263	0.277870	0.003135
87	E	0.693503	0.003859	0.689021	0.003818	0.684578	0.003777
	V	0.294872	0.003291	0.284851	0.003166	0.274830	0.003040
88	E	0.689738	0.003765	0.685296	0.003725	0.680894	0.003684
	V	0.291679	0.003193	0.281779	0.003072	0.271879	0.002951
89	E	0.686064	0.003674	0.681661	0.003635	0.677298	0.003596
	V	0.288580	0.003099	0.278798	0.002981	0.269015	0.002864
90	E	0.682478	0.003586	0.678114	0.002954	0.673788	0.003510
	V	0.285571	0.003009	0.275904	0.002894	0.266234	0.002781

ECCENTRICITY M	0.79 1ST DIF.	2ND DIF.	0.80 1ST DIF.	2ND DIF.	0.81 1ST DIF.	2ND DIF.
91 E	127.10107	0.678978	0.003500	0.003500	127.40894	0.674651
91 V	160.65980	0.282650	0.002921	0.002921	161.29345	0.273093
92 E	127.77663	0.675562	0.003416	0.003416	128.08021	0.671271
92 V	160.93962	0.279813	0.002837	0.002837	161.56381	0.270363
93 E	128.44885	0.672227	0.003335	0.003335	128.74818	0.667971
93 V	161.21667	0.277057	0.002756	0.002756	161.83152	0.267712
94 E	129.11182	0.668970	0.003257	0.003257	129.41293	0.664749
94 V	161.49105	0.274379	0.002678	0.002678	162.09666	0.265135
95 E	129.78361	0.665790	0.003180	0.003180	130.07453	0.661603
95 V	161.76283	0.271776	0.002603	0.002603	162.35929	0.262631
96 E	130.44630	0.662685	0.003105	0.003105	130.73306	0.658530
96 V	162.03208	0.269247	0.002529	0.002529	162.61948	0.260198
97 E	131.10595	0.659652	0.003033	0.003033	131.38859	0.655529
97 V	162.29886	0.266788	0.002459	0.002459	162.87732	0.257832
98 E	131.76264	0.656690	0.002962	0.002962	132.04119	0.652598
98 V	162.56326	0.264398	0.002390	0.002390	163.13285	0.255531
99 E	132.41644	0.653797	0.002893	0.002893	132.69093	0.649735
99 V	162.82533	0.262073	0.002325	0.002325	163.38614	0.253324
100 E	133.06741	0.650971	0.002826	0.002826	133.53786	0.646938
100 V	163.08515	0.259812	0.002261	0.002261	163.53726	0.251118
101 E	133.71562	0.648209	0.002762	0.002762	133.98207	0.644206
101 V	163.34276	0.257613	0.002199	0.002199	163.88626	0.249001
102 E	134.36113	0.645512	0.002697	0.002697	134.52361	0.641537
102 V	163.59823	0.255473	0.002140	0.002140	164.13320	0.246942
103 E	135.00401	0.642877	0.002635	0.002635	135.26254	0.638929
103 V	163.85163	0.253392	0.002081	0.002081	164.37814	0.244938
104 E	135.64431	0.640302	0.002575	0.002575	135.99892	0.636361
104 V	164.12099	0.251366	0.002026	0.002026	164.52113	0.242988
105 E	136.28209	0.637786	0.002516	0.002516	136.53281	0.633891
105 V	164.35238	0.249395	0.001971	0.001971	164.36222	0.241091
106 E	136.91742	0.635329	0.002457	0.002457	137.16426	0.631458
106 V	164.59986	0.247476	0.001919	0.001919	165.01446	0.239244
107 E	137.55035	0.632927	0.002402	0.002402	137.79335	0.629082
107 V	164.84547	0.245609	0.001867	0.001867	165.33891	0.237446
108 E	138.18093	0.630581	0.002346	0.002346	138.12011	0.627559
108 V	165.08926	0.243791	0.001818	0.001818	165.37461	0.235657
109 E	138.80922	0.628288	0.002293	0.002293	139.74460	0.624490
109 V	165.33128	0.242022	0.001769	0.001769	165.30860	0.233993
110 E	139.43527	0.626048	0.002240	0.002240	139.56687	0.622273
110 V	165.57158	0.240299	0.001723	0.001723	166.74093	0.232334
111 E	140.05913	0.623859	0.002189	0.002189	140.28698	0.620107
111 V	165.81020	0.238622	0.001677	0.001677	166.77165	0.230720
112 E	140.68085	0.621721	0.002138	0.002138	140.30497	0.617990
112 V	166.04709	0.236989	0.001633	0.001633	166.30080	0.229147
113 E	141.30048	0.619632	0.002089	0.002089	141.20089	0.615923
113 V	166.28259	0.235399	0.001590	0.001590	166.72842	0.227617
114 E	141.91807	0.617591	0.002041	0.002041	142.13479	0.613903
114 V	166.51644	0.233851	0.001548	0.001548	166.95454	0.226126
115 E	142.53367	0.615598	0.001993	0.001993	142.74672	0.611929
115 V	166.74879	0.232343	0.001508	0.001508	167.17922	0.224675
116 E	143.14732	0.613650	0.001948	0.001948	143.35672	0.610002
116 V	166.97966	0.230876	0.001467	0.001467	167.40248	0.223261
117 E	143.75907	0.611748	0.001902	0.001902	143.76484	0.608119
117 V	167.20911	0.229447	0.001429	0.001429	167.52436	0.221885
118 E	144.36896	0.609890	0.001858	0.001858	144.77112	0.606280
118 V	167.43716	0.228055	0.001392	0.001392	167.74491	0.220545
119 E	144.97703	0.608076	0.001814	0.001814	145.75611	0.604484
119 V	167.66386	0.226701	0.001354	0.001354	168.06415	0.219241
120 E	145.58334	0.606305	0.001771	0.001771	145.77834	0.602731
120 V	167.88924	0.225382	0.001319	0.001319	168.78212	0.217971

ECCENTRICITY		0.79		2ND DIF.		0.80		2ND DIF.		0.81		2ND DIF.	
M		1ST DIF.				1ST DIF.				1ST DIF.			
121	E	0.604575	0.001730	146.37935	0.601019	0.601019	0.001712	146.56873	0.597499	0.597499	0.001694		
122	V	0.224098	0.001284	168.49886	0.216734	0.216734	0.001237	168.88530	0.209358	0.209358	0.001190		
123	E	0.602887	0.001688	146.97870	0.599347	0.599347	0.001672	147.16457	0.595844	0.595844	0.001655		
124	E	0.222848	0.001250	168.71439	0.215530	0.215530	0.001204	169.09350	0.208200	0.208200	0.001158		
125	E	0.601239	0.001648	147.57642	0.597716	0.597716	0.001631	147.75980	0.594229	0.594229	0.001615		
126	E	0.221631	0.001217	168.92875	0.214359	0.214359	0.001171	169.30058	0.207073	0.207073	0.001127		
127	E	0.599630	0.001609	148.17254	0.596123	0.596123	0.001593	148.35145	0.592853	0.592853	0.001576		
128	E	0.220447	0.001184	169.14196	0.213218	0.213218	0.001141	169.50655	0.205976	0.205976	0.001097		
129	E	0.598061	0.001569	148.76711	0.594570	0.594570	0.001553	148.94257	0.591115	0.591115	0.001538		
130	V	0.219294	0.001153	169.35407	0.212108	0.212108	0.001110	169.71146	0.204908	0.204908	0.001068		
131	E	0.596530	0.001531	149.36016	0.593084	0.593084	0.001516	149.53218	0.589614	0.589614	0.001501		
132	E	0.218173	0.001121	169.56510	0.211028	0.211028	0.001080	169.91533	0.203869	0.203869	0.001039		
133	E	0.595036	0.001494	149.95174	0.591575	0.591575	0.001479	150.12033	0.588150	0.588150	0.001464		
134	E	0.217082	0.001091	169.77508	0.209977	0.209977	0.001051	170.11819	0.202858	0.202858	0.001011		
135	E	0.593579	0.001457	150.54187	0.590133	0.590133	0.001442	150.70705	0.586722	0.586722	0.001428		
136	E	0.216020	0.001062	169.98403	0.208934	0.208934	0.001023	170.32006	0.201875	0.201875	0.000983		
137	E	0.592159	0.001420	151.13060	0.588727	0.588727	0.001406	151.29238	0.585330	0.585330	0.001392		
138	E	0.214987	0.001033	170.19199	0.207960	0.207960	0.000994	170.52098	0.200918	0.200918	0.000957		
139	E	0.590774	0.001385	151.71795	0.587356	0.587356	0.001371	151.87636	0.583973	0.583973	0.001357		
140	V	0.213983	0.001004	170.39898	0.206992	0.206992	0.000968	170.72097	0.199987	0.199987	0.000931		
141	E	0.589425	0.001349	152.30397	0.586030	0.586030	0.001336	152.45901	0.582651	0.582651	0.001322		
142	V	0.213007	0.000976	170.60503	0.206052	0.206052	0.000940	170.92005	0.199082	0.199082	0.000905		
143	E	0.588110	0.001315	152.88869	0.584718	0.584718	0.001302	153.04037	0.581362	0.581362	0.001289		
144	E	0.212058	0.000949	170.81017	0.205137	0.205137	0.000915	171.11825	0.198203	0.198203	0.000879		
145	E	0.586830	0.001280	153.47214	0.583450	0.583450	0.001268	153.62048	0.580107	0.580107	0.001255		
146	V	0.211135	0.000923	171.01442	0.204249	0.204249	0.000888	171.31560	0.197348	0.197348	0.000855		
147	E	0.585583	0.001247	154.05436	0.582216	0.582216	0.001234	154.19936	0.578884	0.578884	0.001223		
148	V	0.210239	0.000896	171.21780	0.203385	0.203385	0.000864	171.51212	0.196517	0.196517	0.000831		
149	E	0.584369	0.001214	154.63537	0.581014	0.581014	0.001202	154.77705	0.577694	0.577694	0.001190		
150	E	0.209368	0.000871	171.42035	0.202546	0.202546	0.000839	171.70783	0.195710	0.195710	0.000807		
151	E	0.583187	0.001182	155.21522	0.579844	0.579844	0.001170	155.35359	0.576536	0.576536	0.001158		
152	V	0.208522	0.000846	171.62208	0.201732	0.201732	0.000814	171.90275	0.194926	0.194926	0.000784		
153	E	0.582038	0.001149	155.79392	0.578706	0.578706	0.001138	155.92900	0.575410	0.575410	0.001126		
154	V	0.207701	0.000821	171.82302	0.200941	0.200941	0.000791	172.09692	0.194165	0.194165	0.000761		
155	E	0.580921	0.001117	156.37152	0.577600	0.577600	0.001106	156.50331	0.574314	0.574314	0.001096		
156	V	0.206905	0.000796	172.02320	0.200173	0.200173	0.000768	172.29034	0.193426	0.193426	0.000739		
157	E	0.579835	0.001086	156.94805	0.576524	0.576524	0.001076	157.07656	0.573250	0.573250	0.001064		
158	V	0.206132	0.000773	172.22262	0.199428	0.199428	0.000745	172.48305	0.192710	0.192710	0.000716		
159	E	0.578780	0.001055	157.52353	0.575480	0.575480	0.001044	157.64878	0.572215	0.572215	0.001035		
160	V	0.205382	0.000750	172.42133	0.198706	0.198706	0.000722	172.67507	0.192015	0.192015	0.000695		
161	E	0.577755	0.001025	158.09799	0.574465	0.574465	0.001015	158.21999	0.571211	0.571211	0.001004		
162	V	0.204655	0.000727	172.61934	0.198006	0.198006	0.000700	172.86641	0.191341	0.191341	0.000674		
163	E	0.576760	0.000995	158.67147	0.573480	0.573480	0.000985	158.79023	0.570235	0.570235	0.000976		
164	V	0.203951	0.000704	172.81666	0.197328	0.197328	0.000678	173.05710	0.190689	0.190689	0.000652		
165	E	0.575795	0.000965	159.24400	0.572525	0.572525	0.000955	159.35952	0.569289	0.569289	0.000946		
166	V	0.203270	0.000681	173.01333	0.196671	0.196671	0.000657	173.24715	0.190056	0.190056	0.000633		
167	E	0.574860	0.000935	159.81560	0.571598	0.571598	0.000927	159.92789	0.568372	0.568372	0.000917		
168	V	0.202610	0.000660	173.20937	0.196036	0.196036	0.000636	173.43660	0.189444	0.189444	0.000612		
169	E	0.573953	0.000907	160.38630	0.570701	0.570701	0.000897	160.49537	0.567483	0.567483	0.000889		
170	V	0.201971	0.000639	173.40479	0.195420	0.195420	0.000615	173.62545	0.188852	0.188852	0.000592		
171	E	0.573075	0.000878	160.95613	0.569832	0.569832	0.000869	161.06199	0.566623	0.566623	0.000860		
172	V	0.201354	0.000617	173.59961	0.194825	0.194825	0.000595	173.81373	0.188280	0.188280	0.000572		
173	E	0.572226	0.000849	161.52512	0.568990	0.568990	0.000842	161.62778	0.565790	0.565790	0.000833		
174	V	0.200757	0.000597	173.79386	0.194250	0.194250	0.000575	174.00146	0.187727	0.187727	0.000553		
175	E	0.571405	0.000821	162.09329	0.568177	0.568177	0.000813	162.19277	0.564985	0.564985	0.000805		
176	V	0.200181	0.000576	173.98756	0.193665	0.193665	0.000555	174.18678	0.187193	0.187193	0.000534		
177	E	0.570611	0.000794	162.66069	0.567391	0.567391	0.000786	162.75698	0.564207	0.564207	0.000778		
178	V	0.199626	0.000555	174.18072	0.193160	0.193160	0.000535	174.37533	0.186678	0.186678	0.000515		
179	E	0.569845	0.000766	163.22732	0.566633	0.566633	0.000758	163.32043	0.563455	0.563455	0.000752		
180	V	0.199090	0.000536	174.37336	0.192644	0.192644	0.000516	174.56151	0.186181	0.186181	0.000497		

ECCENTRICITY
M

		18 ⁷⁸ DIF.	2ND DIF.	18 ⁸⁰ DIF.	2ND DIF.	0.81 15 ⁸¹ DIF.	2ND DIF.
151	E	163.70228	0.569106	163.75322	0.565901	163.88316	0.562731
	V	174.38430	0.000516	174.56551	0.192146	174.74721	0.185702
152	E	164.27067	0.000712	164.31842	0.565196	164.44519	0.562033
	V	174.58237	0.000496	174.71718	0.191668	174.93268	0.185242
153	E	164.83838	0.567709	164.91293	0.564518	165.00656	0.561361
	V	174.77997	0.000478	174.92839	0.191208	175.11725	0.184799
154	E	165.40543	0.567050	165.46680	0.563865	165.56727	0.560715
	V	174.97712	0.000458	175.11915	0.190767	175.30163	0.184374
155	E	165.97185	0.566418	166.05004	0.563239	166.12737	0.560095
	V	175.17382	0.000439	175.31949	0.190343	175.48560	0.183967
156	E	166.53766	0.565812	166.61268	0.562600	166.68687	0.559500
	V	175.37010	0.000421	175.51943	0.189937	175.66917	0.183576
157	E	167.10289	0.565231	167.17474	0.562064	167.24580	0.558931
	V	175.56598	0.000403	175.71898	0.189549	175.85238	0.183203
158	E	167.66757	0.564676	167.76215	0.561514	167.80418	0.558387
	V	175.76147	0.000384	175.8816	0.189179	176.03522	0.182846
159	E	168.23171	0.564147	168.2725	0.560990	168.36205	0.557868
	V	175.95660	0.000367	176.06699	0.188826	176.21773	0.182507
160	E	168.79536	0.563642	168.8773	0.560490	168.91942	0.557373
	V	176.15138	0.000348	176.21548	0.188490	176.39991	0.182183
161	E	169.35852	0.563163	169.41775	0.560016	169.47633	0.556903
	V	176.34583	0.000331	176.46365	0.188171	176.58119	0.181876
162	E	169.92123	0.562709	169.97732	0.559566	170.03279	0.556458
	V	176.53997	0.000314	0.187869	0.187869	176.76337	0.181585
163	E	170.48351	0.562280	170.51646	0.559141	170.58882	0.556037
	V	176.73380	0.000296	176.81920	0.187583	176.94468	0.181311
164	E	171.04538	0.561875	171.0520	0.558740	171.14446	0.555640
	V	176.92736	0.000279	177.01641	0.187314	177.12573	0.181052
165	E	171.60688	0.561494	171.65356	0.558363	171.69973	0.555267
	V	177.12066	0.000262	177.21347	0.187062	177.30654	0.180809
166	E	172.16802	0.561139	172.21157	0.558011	172.25465	0.554918
	V	177.31371	0.000245	177.46030	0.186826	177.48713	0.180581
167	E	172.72882	0.560807	172.76925	0.557682	172.80924	0.554592
	V	177.50654	0.000228	177.51691	0.186606	177.66750	0.180370
168	E	173.28932	0.560499	173.31663	0.557378	173.36353	0.554291
	V	177.69915	0.000212	177.71331	0.186402	177.84767	0.180174
169	E	173.84954	0.560216	173.88373	0.557097	173.91754	0.554013
	V	177.89157	0.000194	177.91952	0.186214	178.02766	0.179993
170	E	174.40949	0.559956	174.44057	0.556840	174.47130	0.553758
	V	178.08381	0.000179	178.11557	0.186043	178.20749	0.179828
171	E	174.96922	0.559721	174.99718	0.556607	175.02483	0.553527
	V	178.27589	0.000162	178.31145	0.185887	178.38717	0.179678
172	E	175.52872	0.559509	175.51357	0.556397	175.57815	0.553319
	V	178.46782	0.000145	178.51720	0.185746	178.56671	0.179543
173	E	176.08805	0.559320	176.11978	0.556210	176.13128	0.553135
	V	178.65963	0.000129	178.71282	0.185622	178.74613	0.179423
174	E	176.64720	0.559156	176.66583	0.556047	176.68426	0.552973
	V	178.85132	0.000113	178.88833	0.185513	178.92545	0.179318
175	E	177.20622	0.559015	177.21174	0.555908	177.23709	0.552835
	V	179.04291	0.000096	179.01375	0.185420	179.10468	0.179229
176	E	177.76511	0.558898	177.71753	0.555792	177.78981	0.552720
	V	179.23443	0.000081	179.21910	0.185343	179.24833	0.179154
177	E	178.32392	0.558804	178.31323	0.555699	178.34244	0.552628
	V	179.42588	0.000064	179.44438	0.185281	179.46293	0.179094
178	E	178.88265	0.558733	178.88866	0.555629	178.89500	0.552559
	V	179.61728	0.000048	179.62961	0.185234	179.64198	0.179050
179	E	179.44134	0.558687	179.44444	0.555583	179.44751	0.552513
	V	179.80865	0.000033	179.81481	0.185203	179.82100	0.179020
180	E	180.00000	0.558663	180.00000	0.555559	180.00000	0.552490
	V	180.00000	0.000016	180.00000	0.185188	180.00000	0.552005

ECCENTRICITY
M

		0.82 1ST DIF.	2ND DIF.	0.83 1ST DIF.	2ND DIF.	0.84 1ST DIF.	2ND DIF.
1	E	5.51674	5.83318			6.18691	
2	V	17.42024	18.97951			20.77075	
3	V	10.81876	11.39835	5.565173		12.03626	5.849341
4	V	33.51458	36.26060	17.281093		39.34502	18.574265
5	V	15.76405	16.53178	5.133427	0.431746	17.36154	5.325284
6	V	4.945287	0.356733			5.74630	0.524057
7	V	2.089145	2.089145	50.96921	2.572480	5.74630	3.172982
8	E	47.51978	0.409691	21.18778	4.655998	22.13198	0.554848
9	E	20.29964	4.535596	63.07097	2.606859	67.10705	3.040537
10	V	59.30237	2.222599	12.10175	2.606859	12.360746	0.504011
11	V	24.43432	0.400919	4.205122	0.450876	26.39840	4.266425
12	V	69.09432	1.990657	9.871388	2.302366	76.99331	9.886266
13	V	28.20589	0.363104	3.808583	0.396539	30.23492	4.429907
14	V	77.24158	1.644678	8.096792	1.774596	7.993236	1.893030
15	V	31.66026	0.313703	3.469977	0.338606	3.477713	0.358805
16	V	84.07554	1.313303	87.75953	1.376408	91.55367	6.567127
17	E	34.84153	0.273106	3.183434	0.286543	3.179135	0.298578
18	V	89.87115	1.038344	93.41527	5.655734	97.04089	5.487217
19	V	37.78844	0.234355	38.79563	2.940733	39.82112	2.929349
20	V	94.84396	0.822810	98.24107	4.825808	101.69924	4.658346
21	V	40.53377	0.201577	41.52966	0.206702	42.53968	2.718562
22	V	99.15945	0.657320	4.170935	0.654873	105.71097	4.011730
23	V	43.10483	0.174275	44.08633	2.556672	45.07863	2.538948
24	V	102.94422	0.530717	106.05913	3.647120	109.20987	3.498900
25	V	45.52425	0.151629	46.48959	2.403261	47.46303	2.384407
26	V	94.98036	0.357969	46.48959	2.403261	47.46303	2.384407
27	V	111.98349	0.433408	109.28153	3.222404	112.29562	3.085751
28	V	52.04591	0.103938	52.95909	2.269498	53.87486	2.250208
29	V	114.42595	0.252084	112.15509	2.873556	113.04368	2.748062
30	V	54.01867	0.197275	54.91438	1.955338	55.81157	2.132678
31	V	116.65382	0.214586	119.21135	2.132880	121.78163	2.035515
32	V	55.90810	0.083323	56.78670	1.872318	57.66578	1.854204
33	V	118.69743	2.043610	121.16692	1.955570	123.64736	1.865728
34	V	57.72233	1.814226	58.58420	1.797502	59.44572	1.779942
35	V	120.58156	1.884131	122.96930	1.802377	125.36661	1.719245
36	V	59.46835	1.746018	60.31393	1.729734	61.15847	1.712749
37	V	122.32666	1.745098	124.63831	1.669011	126.95847	1.591866
38	V	61.15223	1.683880	61.98199	1.668062	62.81012	1.651652
39	V	123.94974	1.623078	126.19040	1.552099	128.43878	1.480305
40	V	62.77926	1.627039	63.59369	1.611896	64.40397	1.595853
41	V	125.46507	1.515334	127.63937	1.448961	128.82074	1.381959
42	V	64.35411	1.574844	65.15366	1.559975	66.95066	1.544682
43	V	126.88473	1.419657	128.99661	1.357443	131.11548	1.294743
44	V	65.88085	1.526746	66.66601	1.512343	67.44824	1.497580
45	V	128.21898	1.334255	130.27261	1.275804	132.33246	1.216977
46	V	67.36313	1.482279	68.13434	1.446830	69.90231	1.454074
47	V	129.47664	1.257657	131.47523	1.202617	133.46973	1.147287
48	V	68.80418	1.441045	69.56187	1.427533	70.31607	1.413761
49	V	130.66529	1.188651	132.61194	1.136710	134.56429	1.084546
50	V	70.20688	1.402699	70.95148	1.389609	71.69237	1.376296
51	V	131.79152	1.126228	133.68905	1.077110	135.59211	1.027821
52	V	71.57382	0.035752	72.30575	1.354260	73.03375	1.341384
53	V	132.86106	1.069544	134.71205	1.023003	136.56845	0.976332
54	V	72.90736	1.333531	73.62697	1.321230	74.34252	1.308767
55	V	133.87895	0.03416	135.68576	0.973706	137.49787	0.929425
56	V	74.20958	1.302228	74.91726	1.290293	75.62074	1.278223
57	V	134.84961	0.047231	136.61440	0.928638	138.38441	0.885466
58	V	75.48242	0.970656	76.17852	1.261256	77.87030	1.249556
59	V	135.77694	0.927337	137.50171	0.887308	139.23164	0.847225

ECCENTRICITY

			0.82 1ST DIF.	2ND DIF.		0.83 1ST DIF.	2ND DIF.		0.84 1ST DIF.	2ND DIF.
31	E	76.72762	1.245196	0.027644	77.41246	1.233945	0.027311	78.09289	1.222597	0.026959
	V	136.66443	0.887491	0.039846	138.35100	0.849295	0.038013	140.04270	0.811059	0.036166
32	E	77.94676	1.219142	0.026054	78.62067	1.208209	0.025736	79.29009	1.197195	0.025402
	V	137.51517	0.850739	0.036752	139.16524	0.814235	0.035060	140.82040	0.777703	0.033356
33	E	79.14131	1.194545	0.024597	79.80459	1.183914	0.024295	80.46630	1.173216	0.023979
	V	138.33193	0.816754	0.033985	139.54705	0.781816	0.032419	141.156726	0.746860	0.030843
34	E	80.31259	1.171284	0.023261	80.36553	1.160940	0.022974	81.61385	1.150542	0.022674
	V	139.11718	0.785253	0.031501	140.69882	0.751767	0.030049	142.288551	0.718269	0.028591
35	E	81.46184	1.149251	0.022033	82.10471	1.139181	0.021759	82.74291	1.129067	0.021475
	V	139.87317	0.755987	0.029266	141.42267	0.723850	0.027917	142.97724	0.691705	0.026564
36	E	82.59019	1.128352	0.020899	83.22325	1.118543	0.020638	83.85161	1.108699	0.020388
	V	140.60191	0.728740	0.027247	142.12053	0.697858	0.025992	143.64421	0.666972	0.024733
37	E	83.69869	1.108499	0.019853	84.32219	1.098939	0.019604	84.94096	1.089351	0.019348
	V	141.30523	0.703321	0.025419	142.19413	0.673609	0.024249	144.22810	0.643896	0.023076
38	E	84.78831	1.089616	0.018883	85.02248	1.080292	0.018647	86.01191	1.070949	0.018402
	V	141.98479	0.679562	0.023759	143.44508	0.650943	0.022666	144.91043	0.622325	0.021571
39	E	85.85994	1.071633	0.017983	86.46502	1.062535	0.017757	87.06534	1.053424	0.017525
	V	142.64211	0.657315	0.022247	144.67479	0.629718	0.021225	145.51255	0.602123	0.020202
40	E	86.91443	1.054486	0.017147	87.51062	1.045603	0.016932	88.10205	1.036714	0.016710
	V	143.27855	0.636448	0.020867	144.84460	0.609808	0.019910	146.09572	0.583171	0.018952
41	E	87.95255	1.038118	0.016368	88.54006	1.029441	0.016162	89.12282	1.020763	0.015951
	V	143.89540	0.616842	0.019606	145.57570	0.591101	0.018707	146.66109	0.565363	0.017808
42	E	88.97502	1.022477	0.015641	89.55406	1.013997	0.015444	90.12833	1.005520	0.015243
	V	144.49379	0.598394	0.018448	145.84920	0.573497	0.017604	147.20969	0.548603	0.016760
43	E	89.98254	1.007515	0.014962	90.53328	0.999223	0.014774	91.11927	0.990938	0.014582
	V	145.07480	0.581009	0.017385	146.06611	0.556907	0.016590	147.74249	0.532806	0.015797
44	E	90.97573	0.993190	0.014325	91.53836	0.985077	0.014146	92.09625	0.576975	0.013963
	V	145.63940	0.564660	0.016406	146.94736	0.541250	0.013567	148.26039	0.517896	0.014910
45	E	91.95519	0.979460	0.013730	92.00988	0.971520	0.013557	93.03593	0.563593	0.013382
	V	146.18850	0.549101	0.015502	147.77381	0.526453	0.014797	148.76419	0.503805	0.014091
46	E	92.92148	0.966290	0.013170	93.66839	0.958514	0.013006	94.01060	0.505075	0.012838
	V	146.72294	0.534433	0.014668	147.98626	0.512453	0.014000	149.25467	0.490470	0.013355
47	E	93.87512	0.953647	0.012643	94.11442	0.946029	0.013245	94.94903	0.938430	0.012325
	V	147.24347	0.520539	0.013894	148.08545	0.499189	0.013264	149.73250	0.477836	0.012634
48	E	94.81662	0.941499	0.012148	95.14845	0.934032	0.011997	95.87561	0.926587	0.011843
	V	147.75084	0.507361	0.013178	148.97206	0.486608	0.012581	150.19835	0.465851	0.011985
49	E	95.74644	0.929818	0.011681	96.77095	0.922496	0.011536	96.79081	0.915198	0.011389
	V	148.24569	0.494849	0.012512	149.44672	0.474662	0.011946	150.65282	0.454459	0.011382
50	E	96.66502	0.918577	0.011241	97.8234	0.911395	0.011101	97.69505	0.904238	0.010960
	V	148.72864	0.482957	0.011892	149.91003	0.483307	0.011355	151.09647	0.443649	0.010820
51	E	97.57277	0.907754	0.010823	98.08305	0.900705	0.010690	98.58873	0.893684	0.010554
	V	149.20028	0.471642	0.011315	150.16253	0.452502	0.010805	151.52982	0.433353	0.010296
52	E	98.47010	0.897324	0.010430	98.77345	0.890404	0.010301	99.47225	0.883513	0.010171
	V	149.66115	0.460867	0.010775	150.90474	0.442211	0.010291	151.95337	0.423545	0.009808
53	E	99.35736	0.887268	0.010056	99.85392	0.880472	0.009932	100.34595	0.873706	0.009807
	V	150.11175	0.450595	0.010272	151.13714	0.432400	0.009811	152.36756	0.414194	0.009351
54	E	100.23493	0.877566	0.009702	100.72481	0.870888	0.009584	101.21019	0.864242	0.009464
	V	150.55254	0.440794	0.009801	151.36018	0.423038	0.009362	152.72283	0.405270	0.008924
55	E	101.10313	0.868199	0.009367	101.38645	0.861636	0.009252	102.06530	0.855106	0.009136
	V	150.98397	0.431434	0.009360	152.37428	0.414097	0.008941	153.16958	0.396746	0.008524
56	E	101.98228	0.859152	0.009047	102.3915	0.852699	0.008937	102.91158	0.846280	0.008826
	V	151.40646	0.422489	0.008945	152.77983	0.405551	0.008546	153.55818	0.388598	0.008148
57	E	102.81269	0.850408	0.008744	103.28321	0.844062	0.008637	103.74933	0.837749	0.008531
	V	151.82040	0.413933	0.008556	152.37720	0.397376	0.008175	153.93898	0.380803	0.007795
58	E	103.65464	0.841953	0.008455	104.11892	0.835709	0.008353	104.57883	0.829500	0.008249
	V	152.22614	0.405743	0.008190	153.26675	0.389550	0.007826	154.31232	0.373340	0.007463
59	E	104.48841	0.833773	0.008180	104.34655	0.827628	0.008081	105.40035	0.821518	0.007982
	V	152.62404	0.397897	0.007846	153.54881	0.382053	0.007497	154.67851	0.366190	0.007150
60	E	105.31427	0.825855	0.007918	105.76635	0.819806	0.007822	106.21414	0.813792	0.007726
	V	153.01441	0.390376	0.007521	154.02367	0.374865	0.007188	155.03784	0.359334	0.006856

ECCENTRICITY
M

		0.82 1ST DIF.	2ND DIF.	0.83 1ST DIF.	2ND DIF.	0.84 1ST DIF.	2ND DIF.
61	E	106.13246	0.007667	106.57858	0.007576	107.02045	0.007483
	V	153.39757	0.007215	154.39164	0.006896	155.39060	0.006577
62	E	106.94322	0.007427	107.38347	0.007339	107.81951	0.007250
	V	153.77381	0.006925	154.75299	0.006619	155.73704	0.006316
63	E	107.74678	0.007200	108.18125	0.007113	108.61154	0.007027
	V	154.14339	0.006652	155.10798	0.006359	156.07742	0.006066
64	E	108.54336	0.006980	108.97213	0.006880	109.39676	0.006815
	V	154.50658	0.006394	155.45686	0.006113	156.41196	0.005832
65	E	109.33317	0.006772	109.75632	0.006691	110.17536	0.006610
	V	154.86363	0.006148	155.79986	0.005878	156.74089	0.005610
66	E	110.11641	0.006570	110.53402	0.006493	110.94755	0.006416
	V	155.21475	0.005916	156.13720	0.005657	157.06643	0.005398
67	E	110.89327	0.006379	111.30541	0.006304	111.71352	0.006228
	V	155.56018	0.005696	156.46910	0.005446	157.38276	0.005198
68	E	111.66393	0.006194	112.07068	0.006121	112.47343	0.006048
	V	155.90013	0.005486	156.79575	0.005247	157.69609	0.005008
69	E	112.42858	0.006017	112.83000	0.005932	113.22747	0.005877
	V	156.23478	0.005288	157.11734	0.005057	158.00459	0.004827
70	E	113.18739	0.005803	113.58355	0.005778	113.97580	0.005710
	V	156.56434	0.005098	157.43406	0.004876	158.30844	0.004655
71	E	113.94051	0.005684	114.33148	0.005618	114.71857	0.005551
	V	156.88898	0.004918	157.74607	0.004705	158.60780	0.004492
72	E	114.68810	0.005526	115.07394	0.005462	115.45595	0.005399
	V	157.20887	0.004747	158.05354	0.004540	158.90282	0.004335
73	E	115.43032	0.005375	115.81110	0.005313	116.18808	0.005250
	V	157.52418	0.004583	158.35663	0.004385	159.19365	0.004187
74	E	116.16731	0.005229	116.54308	0.005169	116.91910	0.005109
	V	157.83506	0.004428	158.65548	0.004236	159.48044	0.004044
75	E	116.89921	0.005088	117.27004	0.005030	117.63715	0.004972
	V	158.14167	0.004278	158.95024	0.004093	159.76332	0.003910
76	E	117.62615	0.004954	117.99209	0.004897	118.35345	0.004840
	V	158.44414	0.004136	159.24104	0.003958	160.04242	0.003780
77	E	118.34828	0.004822	118.70938	0.004768	119.06684	0.004713
	V	158.74260	0.004000	159.52801	0.003828	160.31786	0.003656
78	E	119.06571	0.004697	119.42203	0.004643	119.77475	0.004591
	V	159.03720	0.003870	159.81128	0.003703	160.58977	0.003537
79	E	119.77856	0.004575	120.13015	0.004524	120.47818	0.004471
	V	159.32805	0.003745	160.09097	0.003585	160.85825	0.003425
80	E	120.48695	0.004458	120.83387	0.004407	121.17725	0.004357
	V	159.61528	0.003627	160.36718	0.003470	161.12341	0.003315
81	E	121.19101	0.004344	121.53329	0.004295	121.87208	0.004247
	V	159.89900	0.003511	160.64003	0.003362	161.38537	0.003212
82	E	121.89082	0.004234	122.22852	0.004187	122.56277	0.004139
	V	160.17931	0.003403	160.90963	0.003257	161.64421	0.003112
83	E	122.58651	0.004128	122.91967	0.004082	123.24943	0.004036
	V	160.45632	0.003297	161.17607	0.003156	161.90004	0.003016
84	E	123.27818	0.004025	123.60684	0.003980	123.93214	0.003935
	V	160.73014	0.003196	161.43945	0.003060	162.15294	0.002924
85	E	123.96591	0.003926	124.29013	0.003881	124.61102	0.003838
	V	161.00086	0.003099	161.69986	0.002967	162.40301	0.002835
86	E	124.64982	0.003828	124.96963	0.003787	125.28616	0.003744
	V	161.26858	0.003006	161.95739	0.002878	162.65032	0.002751
87	E	125.33000	0.003736	125.64544	0.003694	125.95764	0.003653
	V	161.53337	0.002917	162.12123	0.002793	162.89497	0.002669
88	E	126.06553	0.003644	126.31765	0.003605	126.62556	0.003565
	V	161.79534	0.002830	162.46416	0.002710	163.13703	0.002591
89	E	126.67950	0.003557	126.98633	0.003517	127.29600	0.003478
	V	162.05456	0.002747	162.71356	0.002631	163.37657	0.002514
90	E	127.34900	0.003471	127.65159	0.003433	127.95105	0.003395
	V	162.31111	0.002668	162.96041	0.002554	163.61367	0.002442

ECCENTRICITY
M

		0.82 1ST DIF.	2ND DIF.	0.83 1ST DIF.	2ND DIF.	0.84 1ST DIF.	2ND DIF.
121	E	146.75606	0.594015	146.94138	0.590567	147.12471	0.587155
122	V	169.27319	0.201961	169.66308	0.194531	170.05562	0.187057
123	E	167.34843	0.592377	147.53032	0.588946	147.71026	0.585550
124	V	169.47403	0.200849	169.85654	0.193485	170.24166	0.1866036
125	E	147.93921	0.590779	148.11769	0.587364	148.29425	0.583984
126	V	169.67380	0.199766	170.04897	0.192426	170.42670	0.185043
127	E	148.52843	0.589218	148.70350	0.585819	148.87671	0.582456
128	V	169.87251	0.001054	170.24038	0.191416	170.61077	0.184075
129	E	149.11613	0.587696	149.28782	0.584312	149.45767	0.580964
130	V	170.07020	0.197687	170.43081	0.190432	170.79391	0.183133
131	E	149.70234	0.586210	149.87066	0.582842	150.03718	0.579509
132	V	170.26689	0.196689	170.62029	0.189475	170.97612	0.182217
133	E	150.28710	0.584761	150.45207	0.581408	150.61527	0.578089
134	V	170.46260	0.195717	170.80883	0.188543	171.15745	0.181325
135	E	150.87045	0.583348	151.03208	0.580009	151.19197	0.576704
136	V	170.65738	0.194772	170.99647	0.187637	171.33791	0.180458
137	E	151.45242	0.581970	151.61072	0.578644	151.76732	0.575354
138	V	170.85123	0.193853	171.18323	0.186756	171.51752	0.179614
139	E	152.03304	0.580626	152.18803	0.577315	152.34136	0.574037
140	V	171.04419	0.192959	171.36912	0.185898	171.69631	0.178793
141	E	152.61236	0.579317	152.76405	0.576018	152.91412	0.572754
142	V	171.23628	0.190523	171.55419	0.185064	171.87431	0.177994
143	E	153.19040	0.578041	153.33881	0.574755	153.48562	0.571504
144	V	171.42752	0.191245	171.73844	0.184234	172.05153	0.177276
145	E	153.76720	0.576799	153.91233	0.573525	154.05591	0.570287
146	V	171.61795	0.190423	171.92191	0.183466	172.22799	0.176464
147	E	154.34279	0.575588	154.48466	0.572327	154.62501	0.569101
148	V	171.80757	0.189625	172.10461	0.182700	172.40372	0.175730
149	E	154.91720	0.574410	155.05582	0.571161	155.19236	0.567946
150	V	171.99642	0.188850	172.28657	0.181956	172.57978	0.175018
151	E	155.49046	0.573264	155.63258	0.570026	155.75978	0.566823
152	V	172.18452	0.188097	172.46780	0.181234	172.75306	0.174326
153	E	156.06261	0.572149	156.19477	0.568922	156.32551	0.565730
154	V	172.37189	0.187366	172.64833	0.180533	172.92672	0.173655
155	E	156.63367	0.571064	156.76262	0.567848	156.89017	0.564667
156	V	172.58544	0.186656	172.82818	0.179852	173.09972	0.173003
157	E	157.20368	0.570010	157.32942	0.566805	157.45381	0.563633
158	V	172.74451	0.185967	173.00737	0.179191	173.27209	0.172370
159	E	157.77267	0.568986	157.89521	0.565791	158.01644	0.562630
160	V	172.92981	0.185300	173.18592	0.178551	173.44385	0.171757
161	E	158.34066	0.567991	158.46002	0.564806	158.57809	0.561655
162	V	173.11446	0.184652	173.36387	0.177930	173.61501	0.171162
163	E	158.90769	0.567026	159.02387	0.563850	159.13880	0.560708
164	V	173.29848	0.184025	173.54118	0.177328	173.78560	0.170586
165	E	159.47377	0.566089	159.58679	0.562923	159.69859	0.559790
166	V	173.48190	0.183418	173.71793	0.176745	173.95563	0.170028
167	E	160.03896	0.565181	160.14882	0.562024	160.25749	0.558900
168	V	173.66473	0.182830	173.89411	0.176181	174.12511	0.169487
169	E	160.60326	0.564301	160.70997	0.561132	160.81553	0.558038
170	V	173.84699	0.182261	174.06974	0.175635	174.29408	0.168965
171	E	161.16670	0.563449	161.27028	0.560309	161.37273	0.557202
172	V	174.02871	0.181711	174.24485	0.175107	174.46254	0.168459
173	E	161.72933	0.562624	161.82977	0.559492	161.92912	0.557202
174	V	174.20988	0.181179	174.41945	0.174598	174.63051	0.167971
175	E	162.29115	0.561827	162.38847	0.558703	162.48474	0.555612
176	V	174.39055	0.180666	174.59356	0.174105	174.79801	0.167499
177	E	162.85221	0.561056	162.94641	0.557940	163.03959	0.554857
178	V	174.57072	0.180171	174.76719	0.173630	174.96505	0.167044
179	E	163.41252	0.560312	163.50361	0.557203	163.59312	0.554128
180	V	174.75041	0.179694	174.94036	0.173172	175.13165	0.166605

ECCENTRICITY		$1\sigma_{\text{DIF}}$	2ND DIF.	$1\sigma_{\text{DIF}}$	2ND DIF.	$1\sigma_{\text{DIF}}$	2ND DIF.
151	E	163.97212	0.559595	164.06011	0.000717	0.556493	0.000710
151	V	174.92965	0.179234	175.11309	0.000460	0.172731	0.000441
152	E	164.53102	0.558904	164.61592	0.000691	0.555809	0.000684
152	V	175.10844	0.178791	175.28539	0.000443	0.172306	0.000425
153	E	165.08926	0.558229	165.17107	0.000665	0.555150	0.000659
153	V	175.28681	0.178366	175.45729	0.000425	0.171898	0.000408
154	E	165.64686	0.557599	165.72558	0.000640	0.554517	0.000633
154	V	175.46476	0.177957	175.62880	0.000409	0.171506	0.000392
155	E	166.20385	0.556985	166.27949	0.000614	0.553909	0.000608
155	V	175.64233	0.177566	175.79939	0.000391	0.171130	0.000376
156	E	166.76024	0.556396	166.83282	0.000589	0.553326	0.000583
156	V	175.81952	0.177190	175.97070	0.000376	0.170770	0.000360
157	E	167.31607	0.555833	167.38559	0.000563	0.552768	0.000558
157	V	175.99635	0.176832	176.14112	0.000358	0.170426	0.000344
158	E	167.87137	0.555294	167.93782	0.000539	0.552234	0.000534
158	V	176.17284	0.176489	176.31122	0.000343	0.170097	0.000329
159	E	168.42615	0.554780	168.48955	0.000514	0.551725	0.000509
159	V	176.34900	0.176162	176.48100	0.000327	0.169783	0.000314
160	E	168.98044	0.554290	169.04078	0.000490	0.551240	0.000485
160	V	176.52485	0.175851	176.65049	0.000311	0.169485	0.000298
161	E	169.53426	0.553825	169.59156	0.000465	0.550779	0.000461
161	V	176.70041	0.175556	176.81969	0.000295	0.169202	0.000283
162	E	170.08765	0.553384	170.14191	0.000441	0.550343	0.000436
162	V	176.87569	0.175277	176.98862	0.000279	0.168934	0.000268
163	E	170.64061	0.552966	170.69184	0.000418	0.549930	0.000413
163	V	177.05070	0.175013	177.15730	0.000264	0.168680	0.000254
164	E	171.19319	0.552573	171.24138	0.000393	0.549540	0.000390
164	V	177.22546	0.174764	177.32575	0.000249	0.168442	0.000238
165	E	171.74539	0.552204	171.79055	0.000369	0.549175	0.000365
165	V	177.39999	0.174530	177.49397	0.000234	0.168217	0.000225
166	E	172.29725	0.551858	172.33938	0.000346	0.548832	0.000343
166	V	177.57431	0.174312	177.66197	0.000218	0.168008	0.000209
167	E	172.84879	0.551536	172.88790	0.000322	0.548513	0.000319
167	V	177.74841	0.174109	177.82978	0.000203	0.167813	0.000195
168	E	173.40002	0.551238	173.43612	0.000298	0.548218	0.000295
168	V	177.92233	0.173920	177.99742	0.000189	0.167632	0.000181
169	E	173.95098	0.550962	173.98406	0.000276	0.547945	0.000273
169	V	178.09608	0.173746	178.16488	0.000174	0.167465	0.000167
170	E	174.50170	0.550710	174.53176	0.000252	0.547695	0.000250
170	V	178.44311	0.173443	178.53219	0.000159	0.167312	0.000153
171	E	175.05218	0.550481	175.07923	0.000229	0.547469	0.000226
171	V	178.44311	0.173443	178.49937	0.000144	0.167174	0.000138
172	E	175.60245	0.550276	175.62649	0.000205	0.547265	0.000204
172	V	178.61642	0.173313	178.66842	0.000130	0.167050	0.000124
173	E	176.15254	0.550093	176.17357	0.000183	0.547084	0.000181
173	V	178.78962	0.173198	178.83336	0.000115	0.166939	0.000111
174	E	176.70248	0.549933	176.72050	0.000160	0.546926	0.000158
174	V	178.96272	0.173098	179.00020	0.000100	0.166843	0.000096
175	E	177.25227	0.549796	177.26729	0.000137	0.546790	0.000136
175	V	179.13573	0.173012	179.16696	0.000086	0.166760	0.000083
176	E	177.80196	0.549682	177.81397	0.000114	0.546677	0.000113
176	V	179.30867	0.172940	179.33365	0.000072	0.166591	0.000069
177	E	178.35155	0.549591	178.36056	0.000091	0.546587	0.000090
177	V	179.48155	0.172883	179.50029	0.000057	0.166536	0.000055
178	E	178.90107	0.549523	178.90707	0.000068	0.546519	0.000068
178	V	179.65439	0.172840	179.66688	0.000043	0.166595	0.000041
179	E	179.445055	0.549477	179.45355	0.000046	0.546474	0.000045
179	V	177.82721	0.172811	179.83345	0.000029	0.166567	0.000028
180	E	180.00000	0.549454	180.00000	0.000023	0.546452	0.000022
180	V	180.00000	0.172797	180.00000	0.000014	0.166554	0.000013

ECCENTRICITY M		0.85			2ND DIF.			0.86			2ND DIF.			0.87			2ND DIF.		
		1ST DIF.						1ST DIF.						1ST DIF.					
1	E	6.58459					7.03438							7.54642					
	V	22.84236					25.25527							28.08651					
2	V	12.73992					46.51754							51.31772					
	V	42.81598					46.72627							51.31772					
3	E	18.25788					19.22500							20.26638					
	V	58.87489					63.37542							68.26281					
4	E	23.13378					23.19397							25.31240					
	V	71.41501					75.99465							80.84055					
5	E	27.45042					28.54786							29.68891					
	V	81.24218					85.68088							90.29857					
6	E	31.30480					32.40923							33.54581					
	V	89.07583					93.29761							97.64163					
7	E	34.78197					35.87734							36.99630					
	V	95.45009					99.44059							103.51719					
8	E	37.95025					39.02823							40.12343					
	V	100.74135					104.51030							108.34217					
9	E	40.86307					41.91952							42.98844					
	V	105.21323					108.77851							112.39157					
10	E	43.56212					44.59523							45.63718					
	V	109.05248					112.43355							115.85232					
11	E	46.08016					47.08936							48.10463					
	V	112.39378					115.60913							118.85533					
12	E	48.44318					49.42864							50.41802					
	V	115.33617					118.40244							121.49485					
13	E	50.67207					51.63434							52.59883					
	V	117.95388					120.88573							123.84039					
14	E	52.78381					53.72364							54.66435					
	V	120.30357					123.11377							125.94441					
15	E	54.79237					55.71062							56.62865					
	V	122.42920					125.12884							127.84722					
16	E	56.70937					57.60691							58.50336					
	V	124.36539					126.96413							129.58037					
17	E	58.54456					59.42227							60.29817					
	V	126.13980					128.64606							131.16889					
18	E	60.30619					61.16492							62.01266					
	V	127.77481					130.19594							132.63296					
19	E	62.00132					62.84189							63.67958					
	V	129.28868					131.63117							133.98902					
20	E	63.63604					64.45921							65.27911					
	V	130.69655					132.96610							135.25062					
21	E	65.21561					66.02211							66.82501					
	V	132.01102					134.21269							136.42903					
22	E	66.74463					67.53514							68.32178					
	V	133.24268					135.38098							137.53371					
23	E	68.22713					69.00229							69.77336					
	V	134.40054					136.47950							138.57270					
24	E	69.66668					70.42710							71.18323					
	V	135.49228					137.01581							139.55282					
25	E	71.06645					71.81268							72.55447					
	V	136.52449					138.49524							140.47996					
26	E	72.42924					73.16181							73.88982					
	V	137.50289					139.42411							141.35919					
27	E	73.75759					74.47699							75.19172					
	V	138.43245					140.30681							142.19494					
28	E	75.05376					75.76046							76.46239					
	V	139.31751					141.14744							142.99106					
29	E	76.31980					77.01422							77.70382					
	V	140.16191					141.94965							143.75095					
30	E	77.55756					78.24012							78.91780					
	V	140.96900					142.71654							144.47761					

ECCENTRICITY
M

			0.85 1ST DIF.	2ND DIF.		0.86 1ST DIF.	2ND DIF.		0.87 1ST DIF.	2ND DIF.
31	E	78.76873	1.211172	0.026591	79.43381	1.199688	0.026209	80.10596	1.188163	0.025814
	V	141.74179	0.772787	0.034307	143.45 01	0.734469	0.032443	145.17369	0.696083	0.030576
32	E	79.95485	1.186117	0.025055	80.61180	1.174993	0.024695	81.26980	1.163839	0.024324
	V	142.48293	0.741143	0.031644	144.15155	0.704541	0.029928	145.84157	0.667872	0.028211
33	E	81.11732	1.162466	0.023651	81.76148	1.151682	0.023311	82.41067	1.140876	0.022963
	V	143.19481	0.711879	0.029264	144.83341	0.676861	0.027680	146.48334	0.641775	0.026097
34	E	82.25742	1.140103	0.022363	82.89112	1.129638	0.022044	83.52983	1.119160	0.021716
	V	143.87956	0.684751	0.027128	145.48160	0.651197	0.025664	147.10092	0.611755	0.020200
35	E	83.37634	1.118923	0.021180	84.00488	1.108760	0.020878	84.62843	1.098591	0.020569
	V	144.53910	0.659544	0.025207	146.11095	0.627347	0.023850	147.69600	0.595082	0.022493
36	E	84.47517	1.098832	0.020091	85.09183	1.088955	0.019805	85.70750	1.079079	0.019512
	V	145.17518	0.636071	0.023434	146.71609	0.605015	0.022212	148.27013	0.574129	0.020953
37	E	85.55492	1.079794	0.019083	86.16198	1.070142	0.018813	86.76805	1.060541	0.018538
	V	145.78935	0.614169	0.021902	147.30049	0.584405	0.020730	148.82470	0.554572	0.019557
38	E	86.61652	1.061598	0.018151	87.21622	1.052247	0.017895	87.81095	1.042907	0.017634
	V	146.58304	0.593692	0.020477	147.86151	0.565023	0.019382	149.36098	0.536282	0.018290
39	E	87.66083	1.044310	0.017288	88.25143	1.035203	0.017044	88.83706	1.026109	0.016798
	V	146.95755	0.574513	0.019179	148.41138	0.546866	0.018157	149.88013	0.519145	0.017137
40	E	88.68866	1.027827	0.016483	89.27038	1.018949	0.016254	89.84715	0.500090	0.016019
	V	147.51407	0.556519	0.017994	148.94421	0.529828	0.017038	150.38519	0.503062	0.016083
41	E	89.70075	1.012091	0.015736	90.27181	1.003433	0.015516	90.84195	0.994796	0.015294
	V	148.05368	0.539608	0.016911	149.45102	0.513813	0.016015	150.87113	0.980177	0.015120
42	E	90.69780	0.997052	0.015039	91.26341	0.988603	0.014830	91.82212	0.966190	0.014619
	V	148.57737	0.523691	0.015917	149.95576	0.498737	0.015076	151.34484	0.473706	0.014236
43	E	91.68047	0.982666	0.014386	92.23383	0.974415	0.014188	92.78831	0.460283	0.013987
	V	149.08606	0.508687	0.015004	150.43328	0.484524	0.014213	151.80512	0.460283	0.013423
44	E	92.64936	0.968890	0.013776	93.19165	0.960828	0.013587	93.74111	0.952794	0.013396
	V	149.58058	0.494524	0.014163	150.91039	0.471106	0.013418	152.25273	0.447607	0.012676
45	E	93.60504	0.955685	0.013205	94.14346	0.9477803	0.013025	94.68106	0.939952	0.012842
	V	150.06172	0.481136	0.013388	151.36381	0.458420	0.012686	152.68835	0.435622	0.011985
46	E	94.54806	0.943018	0.012667	95.08076	0.935308	0.012495	95.60869	0.927630	0.012322
	V	150.53018	0.468466	0.012670	151.81122	0.446412	0.012008	153.11263	0.424276	0.011346
47	E	95.47892	0.930855	0.012163	96.00407	0.923310	0.011998	96.52449	0.915798	0.011832
	V	150.98664	0.456459	0.012007	152.25025	0.435032	0.011380	153.52615	0.413521	0.010755
48	E	96.39808	0.919168	0.011687	96.91785	0.911779	0.011531	97.42891	0.904426	0.011372
	V	151.43171	0.445068	0.011391	152.67449	0.424234	0.010798	153.92946	0.403314	0.010207
49	E	97.30601	0.907928	0.011240	97.81654	0.900690	0.011089	98.32240	0.893488	0.010938
	V	151.86596	0.434250	0.010818	153.08346	0.413977	0.010257	154.32308	0.893618	0.009696
50	E	98.20312	0.897111	0.010817	98.70456	0.890017	0.010673	99.20536	0.882960	0.010528
	V	152.28992	0.423964	0.010286	153.49369	0.404224	0.009753	154.70748	0.864396	0.009222
51	E	99.08982	0.886694	0.010417	99.58630	0.879738	0.010279	100.07818	0.872819	0.010141
	V	152.70410	0.414175	0.009789	153.88763	0.394940	0.009284	155.08309	0.875617	0.008779
52	E	99.96647	0.876654	0.010040	100.45613	0.869830	0.009908	100.94122	0.863045	0.009774
	V	153.10895	0.404849	0.009326	154.27372	0.386095	0.008845	155.45035	0.867252	0.008365
53	E	100.83344	0.866972	0.009682	101.31440	0.860276	0.009554	101.79484	0.853618	0.009427
	V	153.50490	0.395956	0.008893	154.65138	0.377659	0.008436	155.80962	0.853972	0.007980
54	E	101.69107	0.857630	0.009342	102.16746	0.851055	0.009221	102.63936	0.844520	0.009098
	V	153.89237	0.387468	0.008488	155.02099	0.369607	0.008052	156.16127	0.835165	0.007617
55	E	102.53968	0.848610	0.009020	103.00361	0.842152	0.008903	103.47510	0.835734	0.008786
	V	154.27173	0.379360	0.008108	155.38290	0.361191	0.007693	156.50565	0.834376	0.007279
56	E	103.37958	0.839896	0.008714	103.84316	0.833551	0.008601	104.30234	0.827246	0.008488
	V	154.64334	0.371609	0.007751	155.73746	0.354559	0.007355	156.84307	0.837416	0.008690
57	E	104.21105	0.831473	0.008423	104.66340	0.825236	0.008315	105.12138	0.819040	0.008206
	V	155.00753	0.364193	0.007416	156.08498	0.347521	0.007038	157.17382	0.830755	0.008661
58	E	105.03438	0.823328	0.008145	105.48359	0.817195	0.008041	105.93248	0.811103	0.007937
	V	155.36463	0.357092	0.007101	156.42376	0.340781	0.006740	157.49820	0.824375	0.008380
59	E	105.84983	0.815446	0.007882	106.29501	0.809413	0.007782	106.73591	0.803422	0.007681
	V	155.71491	0.350288	0.006804	156.76008	0.334321	0.006460	157.81646	0.818261	0.007437
60	E	106.65764	0.807816	0.007630	107.09489	0.801880	0.007533	107.53189	0.795985	0.007437
	V	156.05868	0.343763	0.006525	157.08321	0.328127	0.006194	158.12885	0.312396	0.005865

ECCENTRICITY M	0.85 1ST DIF.	2ND DIF.	0.86 1ST DIF.	2ND DIF.	0.87 1ST DIF.	2ND DIF.
61	E 107.45807	0.800426	0.007390	0.794583	0.007297	0.788782
	V 156.39618	0.337502	0.006261	0.322183	0.005944	0.306767
62	E 108.25133	0.7793266	0.007160	0.787513	0.007070	0.781801
	V 156.72767	0.331491	0.006011	0.316474	0.005709	0.301362
63	E 109.03766	0.786325	0.006941	0.780658	0.006855	0.775034
	V 157.05339	0.325715	0.005776	0.310989	0.005485	0.26167
64	E 109.81725	0.779594	0.006731	0.774011	0.006647	0.768470
	V 157.37355	0.302163	0.005552	0.305716	0.005273	0.291172
65	E 110.59032	0.773064	0.006530	0.767562	0.006449	0.762102
	V 157.68837	0.314822	0.005341	0.300642	0.005074	0.286366
66	E 111.35704	0.766727	0.006337	0.761303	0.006259	0.755920
	V 157.99805	0.309681	0.005141	0.295759	0.004883	0.281739
67	E 112.11762	0.760574	0.006153	0.755225	0.006078	0.749918
	V 158.30278	0.304731	0.004950	0.291055	0.004704	0.277283
68	E 112.87222	0.754598	0.005976	0.749322	0.005903	0.744088
	V 158.60275	0.299961	0.004770	0.286523	0.004532	0.272988
69	E 113.62101	0.748792	0.005806	0.743587	0.005735	0.738424
	V 158.89811	0.295363	0.004598	0.282154	0.004369	0.268847
70	E 114.36416	0.743150	0.005642	0.738013	0.005574	0.732918
	V 159.18904	0.290929	0.004434	0.277940	0.004214	0.264853
71	E 115.10182	0.737665	0.005485	0.732594	0.005419	0.727565
	V 159.47569	0.286650	0.004279	0.273873	0.004067	0.260998
72	E 115.83415	0.732331	0.005334	0.727324	0.005270	0.722359
	V 159.75821	0.282519	0.004131	0.269947	0.003926	0.257276
73	E 116.56130	0.727142	0.005189	0.722197	0.005127	0.717294
	V 160.03674	0.278530	0.003989	0.266155	0.003792	0.253681
74	E 117.28339	0.722093	0.005049	0.717209	0.004988	0.712365
	V 160.31141	0.274675	0.003855	0.262490	0.003665	0.250207
75	E 118.00057	0.717180	0.004913	0.712353	0.004856	0.707568
	V 160.58236	0.270950	0.003725	0.258948	0.003542	0.246848
76	E 118.71297	0.712396	0.004784	0.707626	0.004727	0.702897
	V 160.84971	0.267347	0.003603	0.255523	0.003425	0.236000
77	E 119.42070	0.707738	0.004658	0.703023	0.004603	0.698348
	V 161.11357	0.263863	0.003484	0.252209	0.003314	0.240457
78	E 120.12390	0.703201	0.004537	0.698539	0.004484	0.693917
	V 161.37406	0.260490	0.003373	0.249002	0.003207	0.237416
79	E 120.82269	0.698781	0.004420	0.694170	0.004369	0.689600
	V 161.63129	0.257226	0.003264	0.245898	0.003104	0.234471
80	E 121.51716	0.694474	0.004307	0.689914	0.004256	0.685393
	V 161.88535	0.254065	0.003161	0.242891	0.003007	0.231619
81	E 122.20744	0.690276	0.004198	0.685765	0.004149	0.681293
	V 162.13636	0.251003	0.003062	0.239978	0.002913	0.228856
82	E 122.89362	0.686185	0.004091	0.681720	0.004045	0.6847295
	V 162.38439	0.248036	0.002967	0.237156	0.002822	0.226178
83	E 123.57582	0.682195	0.003990	0.677776	0.003944	0.673397
	V 162.62955	0.245160	0.002876	0.234420	0.002736	0.223582
84	E 124.25412	0.678304	0.003891	0.673930	0.003846	0.669595
	V 162.87192	0.242372	0.002788	0.231767	0.002653	0.221064
85	E 124.92863	0.674509	0.003795	0.670178	0.003752	0.665887
	V 163.11159	0.239667	0.002705	0.229194	0.002573	0.218622
86	E 125.59944	0.670808	0.003701	0.666519	0.003659	0.662269
	V 163.34863	0.237044	0.002623	0.226697	0.002497	0.216253
87	E 126.26663	0.667196	0.003616	0.662948	0.003571	0.668739
	V 163.58313	0.234498	0.002546	0.224275	0.002422	0.213954
88	E 126.93030	0.663671	0.003525	0.659463	0.003485	0.665294
	V 127.59053	0.232027	0.002471	0.221923	0.002352	0.211722
89	E 127.59053	0.660232	0.003439	0.656062	0.003401	0.651932
	V 164.04479	0.229628	0.002399	0.219640	0.002283	0.209555
90	E 128.24741	0.656874	0.003358	0.652743	0.003319	0.648650
	V 164.27209	0.227259	0.002329	0.217423	0.002217	0.207450

ECCENTRICITY M		0.85		0.86		0.87	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
121	E	147.30610	0.583777	147.48557	0.001627	147.66314	0.001609
122	V	170.45156	0.179526	170.85174	0.001001	171.25717	0.000955
122	E	147.88829	0.582190	148.06443	0.001587	148.23871	0.001572
123	V	170.63011	0.178550	171.02273	0.000976	171.42051	0.000929
123	E	148.46893	0.580640	148.64176	0.001550	148.81276	0.001519
124	V	170.80771	0.177601	171.19282	0.000949	171.58299	0.000905
124	E	149.04806	0.579127	149.21759	0.001513	149.38534	0.001498
125	V	170.98438	0.176677	171.36202	0.000924	171.74463	0.000881
125	E	149.62571	0.577651	149.79196	0.001476	149.95646	0.001446
126	V	171.16016	0.175777	171.53037	0.000900	171.90546	0.000858
126	E	150.20192	0.576210	150.36491	0.001441	150.52618	0.001411
127	V	171.33506	0.174901	171.69788	0.000876	172.06549	0.000834
127	E	150.77672	0.574805	150.93646	0.001405	151.09451	0.001390
128	V	171.50911	0.174049	171.86458	0.000852	172.22475	0.000813
128	E	151.35016	0.573434	151.50866	0.001371	151.66151	0.001357
129	V	171.68233	0.173220	172.03049	0.000829	172.38326	0.000790
129	E	151.92226	0.572098	152.07554	0.001336	152.22720	0.001323
130	V	171.85474	0.172414	172.19563	0.000806	172.54104	0.000769
130	E	152.49305	0.570795	152.64312	0.001303	152.79161	0.001289
131	V	172.02637	0.171629	172.36002	0.000785	172.69810	0.000748
131	E	153.06257	0.569525	153.20945	0.001270	153.35477	0.001257
132	V	172.19724	0.170866	172.52369	0.000763	172.85448	0.000727
132	E	153.63086	0.568287	153.77456	0.001238	153.91673	0.001225
133	V	172.36736	0.170125	172.68665	0.000741	173.01018	0.000708
133	E	154.19794	0.567082	154.33847	0.001205	154.47750	0.001194
134	V	172.53677	0.169404	172.84892	0.000721	173.16523	0.000687
134	E	154.76385	0.565908	154.90121	0.001174	155.03712	0.001162
135	V	172.70547	0.168703	173.01052	0.000701	173.31964	0.000668
135	E	155.32862	0.564765	155.46283	0.001143	155.59562	0.001131
136	V	172.87350	0.168022	173.17148	0.000681	173.47343	0.000649
136	E	155.89227	0.563653	156.02335	0.001112	156.15303	0.001101
137	V	173.04086	0.167361	173.33180	0.000661	173.62663	0.000631
137	E	156.45484	0.562571	156.58279	0.001082	156.70939	0.001071
138	V	173.20757	0.166719	173.49151	0.000642	173.77924	0.000612
138	E	157.01636	0.561519	157.14120	0.001052	157.26471	0.001041
139	V	173.37367	0.166096	173.65063	0.000623	173.93129	0.000594
139	E	157.57685	0.560496	157.69859	0.001023	157.81903	0.001013
140	V	173.53916	0.165492	173.80917	0.000604	174.08279	0.000576
140	E	158.13636	0.559502	158.25500	0.000994	158.37237	0.000984
141	V	173.70407	0.164905	173.96715	0.000587	174.23376	0.000559
141	E	158.69489	0.558537	158.81045	0.000965	158.92477	0.000955
142	V	173.86840	0.164337	174.12459	0.000568	174.38421	0.000543
142	E	159.25249	0.557600	159.36497	0.000937	159.47625	0.000928
143	V	174.03219	0.163786	174.28150	0.000551	174.53416	0.000525
143	E	159.80919	0.556691	159.91860	0.000909	160.02684	0.000899
144	V	174.19544	0.163253	174.43791	0.000533	174.68363	0.000509
144	E	160.36499	0.555810	160.47135	0.000881	160.57657	0.000873
145	V	174.35818	0.162736	174.59382	0.000517	174.83263	0.000492
145	E	160.91995	0.554936	161.02326	0.000854	161.12546	0.000845
146	V	174.52042	0.162236	174.74926	0.000500	174.98118	0.000477
146	E	161.47408	0.554129	161.57434	0.000827	161.67354	0.000819
147	V	174.68217	0.161753	174.90423	0.000483	175.12929	0.000461
147	E	162.02741	0.553329	162.12464	0.000800	162.22083	0.000792
148	V	174.84346	0.161286	175.05876	0.000467	175.27697	0.000445
148	E	162.57996	0.552555	162.66741	0.000774	162.76737	0.000766
149	V	175.00429	0.160836	175.21286	0.000450	175.42425	0.000430
149	E	163.13177	0.551807	163.22296	0.000748	163.31318	0.000741
150	V	175.16469	0.160401	175.36655	0.000435	175.57113	0.000415
150	E	163.68285	0.551085	163.77103	0.000722	163.85827	0.000714
	V	175.32467	0.159981	175.51983	0.000420	175.71763	0.000400

ECCENTRICITY		0.85 1ST DIF.	2ND DIF.	0.86 1ST DIF.	2ND DIF.	0.87 1ST DIF.	2ND DIF.
151	E	164.23324	0.550389	164.31842	0.547385	164.40269	0.544414
	V	175.48425	0.159577	175.61273	0.152900	175.86376	0.000682
152	E	164.78296	0.549718	164.86514	0.546671	164.94644	0.000366
	V	175.64344	0.159188	175.82526	0.152529	176.00954	0.000658
153	E	165.33203	0.549072	165.41122	0.546082	165.48936	0.000353
	V	175.80225	0.158815	175.97743	0.152172	176.15499	0.000339
154	E	165.88048	0.548451	165.95669	0.545467	166.03208	0.000608
	V	175.96071	0.158456	176.11926	0.151830	176.30010	0.000326
155	E	166.42834	0.547855	166.50157	0.544877	166.57401	0.000585
	V	176.11882	0.158111	176.28077	0.151502	176.44490	0.000312
156	E	166.97562	0.547284	167.04588	0.544311	167.11538	0.000560
	V	176.27660	0.157782	176.41195	0.151187	176.58941	0.000300
157	E	167.52236	0.546737	167.59965	0.543769	167.65621	0.000536
	V	176.43407	0.157466	176.58284	0.150886	176.73363	0.000286
158	E	168.06857	0.546213	168.11290	0.543251	168.19654	0.000513
	V	176.59123	0.157165	176.71344	0.150599	176.87757	0.000273
159	E	168.61429	0.545714	168.67566	0.542757	168.73637	0.000489
	V	176.74811	0.156878	176.83376	0.150325	177.02126	0.000261
160	E	169.15953	0.545239	169.21794	0.542287	169.27573	0.000466
	V	176.90472	0.156605	177.01383	0.150065	177.16469	0.000248
161	E	169.70431	0.544787	169.77978	0.541839	169.81465	0.000443
	V	177.06106	0.156346	177.11365	0.149817	177.30789	0.000235
162	E	170.24867	0.544359	170.31120	0.541415	170.35316	0.000420
	V	177.27176	0.156100	177.33323	0.149593	177.45087	0.000223
163	E	170.79263	0.543954	170.84221	0.541014	170.89126	0.000397
	V	177.37303	0.155868	177.43259	0.149361	177.59364	0.000211
164	E	171.33620	0.543573	171.39285	0.540637	171.42900	0.000374
	V	177.53620	0.155649	177.63174	0.149153	177.73621	0.000198
165	E	171.87941	0.543214	171.92313	0.540282	171.96638	0.000352
	V	177.68412	0.154944	177.78070	0.148957	177.87859	0.000187
166	E	172.42229	0.542878	172.465308	0.539949	172.50343	0.000329
	V	177.83937	0.155252	177.92947	0.148774	178.02080	0.000174
167	E	172.96486	0.542566	173.00272	0.539640	173.04017	0.000306
	V	177.99445	0.155073	178.07808	0.148603	178.16284	0.000162
168	E	173.50713	0.542276	173.54207	0.539332	173.57663	0.000285
	V	178.14935	0.154907	178.22652	0.148445	178.30474	0.000151
169	E	174.04914	0.542008	174.08116	0.539088	174.11283	0.000262
	V	178.30411	0.154755	178.37482	0.148299	178.44650	0.000138
170	E	174.59091	0.541764	174.62000	0.538845	174.64879	0.000240
	V	178.45872	0.154615	178.52299	0.148186	178.58813	0.000127
171	E	175.13245	0.541541	175.15863	0.538625	175.18453	0.000217
	V	178.61321	0.154488	178.67103	0.148045	178.72964	0.000115
172	E	175.67379	0.541342	175.69706	0.538428	175.72007	0.000196
	V	178.76759	0.154374	178.81897	0.147936	178.87105	0.000104
173	E	176.21495	0.541164	176.23531	0.538252	176.25545	0.000174
	V	178.92186	0.154273	178.95681	0.147840	179.01237	0.000092
174	E	176.75596	0.541009	176.77341	0.538098	176.79066	0.000152
	V	179.07604	0.154184	179.11456	0.147755	179.15361	0.000080
175	E	177.29684	0.540876	177.31137	0.537967	177.32575	0.000131
	V	179.53819	0.154099	179.57425	0.147683	179.59478	0.000069
176	E	177.83760	0.540765	177.84923	0.537857	177.86073	0.000108
	V	179.38420	0.154046	179.40987	0.147623	179.43589	0.000057
177	E	178.37828	0.540677	178.38700	0.537769	178.39562	0.000087
	V	179.53819	0.153995	179.57454	0.147575	179.57696	0.000046
178	E	178.91889	0.540611	178.92470	0.537704	178.93045	0.000065
	V	179.69215	0.153957	179.70498	0.147539	179.71759	0.000034
179	E	179.45946	0.540566	179.46236	0.537660	179.46524	0.000043
	V	179.84608	0.153932	179.85250	0.147515	179.85900	0.000023
180	E	180.00000	0.540544	180.00000	0.537638	180.00000	0.000022
	V	180.00000	0.153920	180.00000	0.147503	180.00000	0.000011

ECCENTRICITY M		0.88		2ND DIF.		0.89		2ND DIF.		0.90		2ND DIF.	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
1	E	8.13323		8.81032						9.59672			
	V	31.43353		35.41900		7.572618				40.19528			
2	E	15.33011		16.38294		26.229007				17.54413			
	V	56.08847		61.64801		6.197229				67.85091			
3	E	21.38445		24.654940		17.569275				23.85262			
	V	73.54426		79.21728		17.569275				85.26873			
4	E	26.48786		30.90933		5.137764				28.99902			
	V	85.94202		91.28363		12.066316				96.84649			
5	E	30.87098		32.09080		4.372866				33.34445			
	V	95.08236		100.01841		8.734813				105.09349			
6	E	34.71170		35.90369		3.812883				37.11823			
	V	102.09756		106.65602		6.637605				111.30981			
7	E	38.13616		39.29404		3.90356				40.46693			
	V	107.67285		111.90225		5.246231				116.20278			
8	E	41.23346		42.35582		3.061778				43.48799			
	V	112.23276		116.17987		4.277625				120.18409			
9	E	44.06771		45.15522		2.799401				46.24885			
	V	116.05044		119.75519		3.575312				123.50858			
10	E	46.68615		47.74035		2.585126				48.79798			
	V	119.30849		122.80375		3.048566				126.34236			
11	E	49.12441		50.14714		2.406780				51.17132			
	V	122.13334		125.44598		2.642228				128.79855			
12	E	51.40995		52.40310		2.55969				53.39622			
	V	124.61524		127.76728		2.321300				130.95696			
13	E	53.56435		54.52977		2.126668				55.49400			
	V	126.82040		129.83001		2.062728				132.87568			
14	E	55.60489		56.54428		2.014511				57.48159			
	V	128.79854		131.68083		1.850808				134.59805			
15	E	57.54557		58.46052		1.916233				59.37267			
	V	130.58776		133.35541		1.674588				136.15718			
16	E	59.39793		60.28987		1.829355				61.17847			
	V	132.21778		134.88156		1.526144				137.57881			
17	E	61.17158		62.04183		1.751994				63.90829			
	V	133.71218		136.28126		1.399703				138.88330			
18	E	62.87460		63.72435		1.682522				64.56597			
	V	135.08991		137.57220		1.290935				140.08702			
19	E	64.51386		65.34420		1.61987				66.17015			
	V	136.36639		138.76874		1.196546				141.20327			
20	E	66.09525		66.90719		1.562988				67.71450			
	V	137.55433		139.88273		1.113952				142.24259			
21	E	67.62388		68.41832		1.511125				69.20795			
	V	138.66430		140.92401		1.041279				143.21527			
22	E	69.10416		69.88193		1.463616				70.65476			
	V	139.70517		141.90084		0.976825				144.12778			
23	E	70.53999		71.30185		1.119919				72.05866			
	V	140.68445		142.82020		0.919361				144.98695			
24	E	71.93477		72.68143		1.379580				73.44295			
	V	141.60853		143.68806		0.867860				145.79832			
25	E	73.29155		74.02365		1.342216				74.75055			
	V	142.48293		144.50954		0.821482				146.56663			
26	E	74.61300		75.33115		1.307498				76.04404			
	V	143.31240		145.28907		0.779531				147.29336			
27	E	75.90156		76.60630		1.275148				77.30575			
	V	144.10107		146.03050		0.741430				147.98989			
28	E	77.15938		77.85122		1.244925				78.53776			
	V	144.85257		146.73720		0.706697				148.65154			
29	E	78.38841		79.06784		1.216619				79.74195			
	V	145.37006		147.41212		0.674924				149.28364			
30	E	79.59044		80.25789		1.190049				80.92003			
	V	146.25636		148.05196		0.645764				149.88862			

ECCENTRICITY

			10 ⁻⁸ DIF.	2ND DIF.	10 ⁻⁸ DIF.	2ND DIF.	10 ⁻⁹ DIF.	2ND DIF.	
31	E	80.76705	1.176614	0.025408	81.42195	1.165056	0.024993	82.07353	1.153504
	V	146.91394	0.657587	0.028709	148.67681	0.618923	0.026841	150.46862	0.580003
32	E	81.91972	1.152669	0.023945	82.56444	1.141499	0.023557	83.20387	1.130341
	V	147.54504	0.6631094	0.028493	149.27096	0.594146	0.024777	151.02557	0.556942
33	E	83.04978	1.130063	0.022606	83.68370	1.119255	0.022244	84.31234	1.108466
	V	148.15162	0.606580	0.024514	149.84217	0.571214	0.022932	151.56116	0.535593
34	E	84.15846	1.108682	0.021381	84.78191	1.098215	0.021040	85.40011	1.087771
	V	148.73546	0.583843	0.022737	150.39211	0.549939	0.021275	152.07694	0.515779
35	E	85.24689	1.088428	0.020254	85.86920	1.078281	0.019934	86.46827	1.068161
	V	149.29817	0.562705	0.021138	150.92227	0.530155	0.019784	152.57429	0.497349
36	E	86.31610	1.069212	0.019216	86.91256	1.059367	0.018914	87.51782	1.049550
	V	149.84118	0.543011	0.019694	151.43398	0.511718	0.018437	153.05446	0.480189
37	E	87.36706	1.050955	0.018257	87.96396	1.041393	0.017974	88.54968	1.031863
	V	150.36580	0.524624	0.018387	151.92348	0.494501	0.017121	153.51858	0.464121
38	E	88.40064	1.033585	0.017370	88.98525	1.024291	0.017102	89.56471	1.015031
	V	150.87323	0.507425	0.017199	152.40588	0.478392	0.016109	153.96768	0.449102
39	E	89.44768	1.017038	0.016547	89.99324	1.007997	0.016294	90.56371	0.425021
	V	151.36453	0.491307	0.016118	152.87317	0.463292	0.015100	154.40270	0.414081
40	E	90.41894	1.001256	0.015782	90.98570	0.992454	0.015543	91.54740	0.383691
	V	151.84071	0.476177	0.015130	153.31928	0.449114	0.014178	154.82450	0.352255
41	E	91.40512	0.986186	0.015070	91.96331	0.977611	0.014843	92.51647	0.326076
	V	152.30266	0.461951	0.014226	153.75506	0.435780	0.013334	155.23385	0.409355
42	E	92.37691	0.971781	0.014405	92.92673	0.963421	0.014190	93.47158	0.355102
	V	152.75122	0.448553	0.013398	154.7828	0.423221	0.012559	155.63149	0.397635
43	E	93.33490	0.957997	0.013784	93.87657	0.949841	0.013580	94.41330	0.321728
	V	153.18713	0.435918	0.012635	154.56966	0.411373	0.011848	156.01806	0.386576
44	E	94.27970	0.944794	0.013203	94.81340	0.936832	0.013009	95.34222	0.328914
	V	153.61112	0.423595	0.011933	154.98984	0.400182	0.011191	156.39419	0.328914
45	E	95.21183	0.932135	0.012659	95.73776	0.924359	0.012473	96.25884	0.316626
	V	154.02382	0.412699	0.011286	155.37943	0.389596	0.010586	156.76043	0.366241
46	E	96.13182	0.919899	0.012146	96.65015	0.912388	0.011971	97.16367	0.304831
	V	154.42583	0.402013	0.010686	155.75900	0.379570	0.010026	157.11731	0.356877
47	E	97.04014	0.908323	0.011666	97.55104	0.900890	0.011498	98.05718	0.893502
	V	154.81771	0.391883	0.010130	156.12907	0.370064	0.009506	157.46530	0.347995
48	E	97.93725	0.897111	0.011212	98.47088	0.889838	0.011052	98.93979	0.882610
	V	155.19998	0.382267	0.009616	156.49011	0.361039	0.009025	157.83046	0.339562
49	E	98.82358	0.886325	0.010786	99.37008	0.879205	0.010633	99.81192	0.872130
	V	155.57311	0.373131	0.009136	156.84257	0.352462	0.008577	158.13641	0.331547
50	E	99.69952	0.875943	0.010382	100.11905	0.868969	0.010236	100.67396	0.862040
	V	155.93755	0.364440	0.008691	157.11687	0.344303	0.008159	158.46033	0.323919
51	E	100.56546	0.865941	0.010002	101.04816	0.859107	0.009862	101.52628	0.852319
	V	156.29372	0.356165	0.008275	157.51341	0.336532	0.007771	158.77699	0.316654
52	E	101.42176	0.856301	0.009640	101.87776	0.849600	0.009507	102.36922	0.842946
	V	156.64200	0.348278	0.007887	157.81253	0.329125	0.007407	159.08671	0.309728
53	E	102.26877	0.847002	0.009299	102.73819	0.840429	0.009171	103.20312	0.833903
	V	156.98275	0.340755	0.007523	158.17459	0.322058	0.007067	159.38983	0.303118
54	E	103.10679	0.838026	0.008976	103.56977	0.831577	0.008852	104.02830	0.825174
	V	157.31632	0.333572	0.007183	158.43990	0.315309	0.006749	159.68664	0.296805
55	E	103.93615	0.829359	0.008667	104.39279	0.823027	0.008550	104.84504	0.816742
	V	157.64303	0.326707	0.006865	158.73876	0.306858	0.006451	159.97741	0.290770
56	E	104.75713	0.820983	0.008376	105.21756	0.814765	0.008262	105.65363	0.808593
	V	157.96317	0.320142	0.006565	159.13144	0.302688	0.006170	160.26240	0.284997
57	E	105.57002	0.812886	0.008097	106.01433	0.806777	0.007988	106.45435	0.800713
	V	158.27703	0.313857	0.006285	159.33823	0.296782	0.005906	160.54187	0.279469
58	E	106.37507	0.805053	0.007833	106.81338	0.799049	0.007728	107.24744	0.793090
	V	158.58487	0.307838	0.006019	159.63935	0.291123	0.005659	160.81605	0.274173
59	E	107.17255	0.797473	0.007580	107.63495	0.791569	0.007480	108.03315	0.785710
	V	158.88693	0.302068	0.005770	159.97505	0.285698	0.005425	161.08514	0.269094
60	E	107.96268	0.790133	0.007340	108.38928	0.784326	0.007243	108.81171	0.778564
	V	159.18347	0.296633	0.005535	160.23554	0.280494	0.005204	161.34936	0.264222

ECCENTRICITY M		0.88		2ND DIF.		0.89		2ND DIF.		0.90	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
61	E	108.74570	0.783023	0.007110	109.16659	0.777309	0.007017	109.58335	0.771640	0.006924	0.006924
	V	159.47469	0.291220	0.005313	160.53104	0.275497	0.004997	161.60891	0.259543	0.004679	0.004679
62	V	109.52184	0.776133	0.006890	109.93709	0.770508	0.006801	110.34828	0.764929	0.006711	0.006711
	V	159.76081	0.286117	0.005103	160.80173	0.270698	0.004799	161.86395	0.255048	0.004495	0.004495
63	E	110.29129	0.769452	0.006681	110.70101	0.763914	0.006594	111.10670	0.758421	0.006508	0.006508
	V	160.04202	0.281213	0.004904	161.06782	0.266084	0.004614	162.11468	0.250726	0.004322	0.004322
64	E	111.05426	0.762972	0.006480	111.45853	0.757517	0.006397	111.85891	0.752108	0.006313	0.006313
	V	160.31851	0.276496	0.004717	161.32947	0.261647	0.004437	162.36125	0.246570	0.004156	0.004156
65	E	111.81094	0.756684	0.006288	112.20984	0.751310	0.006207	112.60479	0.745981	0.006127	0.006127
	V	160.59047	0.271958	0.004538	161.58684	0.257376	0.004271	162.60362	0.242569	0.004001	0.004001
66	E	112.56153	0.750581	0.006103	112.95512	0.745285	0.006025	113.34482	0.740033	0.005948	0.005948
	V	160.85806	0.267588	0.004370	161.84011	0.253264	0.004112	162.84253	0.238716	0.003853	0.003853
67	E	113.30618	0.744654	0.005927	113.69455	0.739433	0.005852	114.07908	0.734256	0.005777	0.005777
	V	161.12144	0.263379	0.004209	162.08941	0.249303	0.003961	163.07754	0.235003	0.003713	0.003713
68	E	114.04508	0.738897	0.005757	114.42830	0.737349	0.005684	114.80772	0.728644	0.005561	0.005561
	V	161.38076	0.259322	0.004057	162.33489	0.245484	0.003819	163.30896	0.231425	0.003578	0.003578
69	E	114.77838	0.733303	0.005594	115.15653	0.728225	0.005524	115.53091	0.723190	0.005454	0.005454
	V	161.63617	0.255410	0.003912	162.57670	0.241802	0.003682	163.53693	0.227973	0.003452	0.003452
70	E	115.50624	0.727865	0.005438	115.87938	0.722855	0.005370	116.24880	0.717888	0.005302	0.005302
	V	161.88781	0.251636	0.003774	162.81495	0.238249	0.003555	163.76158	0.224642	0.003331	0.003331
71	E	116.22882	0.722578	0.005287	116.59702	0.717633	0.005222	116.96153	0.712731	0.005157	0.005157
	V	162.13580	0.247994	0.003642	163.04976	0.234819	0.003430	163.98300	0.221427	0.003215	0.003215
72	E	116.94626	0.717435	0.005143	117.30957	0.712554	0.005079	117.66925	0.707716	0.005015	0.005015
	V	162.38028	0.244476	0.003518	163.28127	0.231507	0.003312	164.20132	0.218321	0.003106	0.003106
73	E	117.65869	0.712432	0.005003	118.01718	0.707612	0.004942	118.37208	0.702835	0.004881	0.004881
	V	162.62136	0.241078	0.003398	163.50958	0.228701	0.003200	164.41665	0.215321	0.003000	0.003000
74	E	118.36625	0.707563	0.004869	118.71999	0.702803	0.004809	119.07017	0.698085	0.004750	0.004750
	V	162.85915	0.237794	0.003284	163.73479	0.225214	0.003093	164.86297	0.212420	0.002901	0.002901
75	E	119.06907	0.702824	0.004739	119.41811	0.698121	0.004682	119.76363	0.693461	0.004624	0.004624
	V	163.09377	0.234619	0.003175	163.95702	0.222224	0.002990	164.83868	0.209615	0.002805	0.002805
76	E	119.76728	0.698209	0.004615	120.11167	0.693563	0.004558	120.45259	0.688958	0.004503	0.004503
	V	163.32532	0.231549	0.003070	164.17635	0.219331	0.002893	165.04558	0.206902	0.002713	0.002713
77	E	120.46100	0.693715	0.004494	120.80079	0.689123	0.004440	121.13716	0.684572	0.004386	0.004386
	V	163.55389	0.228577	0.002972	164.39288	0.216532	0.002799	165.24986	0.204276	0.002626	0.002626
78	E	121.15034	0.689337	0.004378	121.48559	0.684797	0.004326	121.81746	0.680299	0.004273	0.004273
	V	163.77960	0.225701	0.002876	164.50670	0.213822	0.002710	165.45159	0.201733	0.002543	0.002543
79	E	121.83541	0.685071	0.004266	122.16617	0.680583	0.004214	122.49339	0.676135	0.002462	0.002462
	V	164.00251	0.222916	0.002785	164.81790	0.211198	0.002624	165.65086	0.199271	0.002462	0.002462
80	E	122.51632	0.680914	0.004157	122.84265	0.676475	0.004108	123.16567	0.672077	0.004058	0.004058
	V	164.22273	0.220219	0.002697	165.02656	0.208656	0.002542	165.84775	0.196886	0.002385	0.002385
81	E	123.19318	0.676862	0.004052	123.15152	0.672471	0.004004	123.83379	0.668120	0.003957	0.003957
	V	164.44034	0.217606	0.002613	165.23275	0.206194	0.002462	166.04232	0.194575	0.002311	0.002311
82	E	123.86609	0.672911	0.003951	124.18368	0.668566	0.003905	124.49805	0.664262	0.003858	0.003858
	V	164.65541	0.215073	0.002533	165.43656	0.203806	0.002388	166.23466	0.192335	0.002240	0.002240
83	E	124.53515	0.669058	0.003853	124.84844	0.664759	0.003807	125.15855	0.660500	0.003762	0.003762
	V	164.86803	0.212617	0.002456	165.63805	0.201492	0.002314	166.42482	0.190162	0.002173	0.002173
84	E	125.20045	0.665301	0.003757	125.50949	0.661046	0.003713	125.81538	0.656830	0.003670	0.003670
	V	165.07826	0.210236	0.002381	165.83730	0.199247	0.002240	166.61287	0.188035	0.002107	0.002107
85	E	125.86209	0.661635	0.003666	126.16691	0.657423	0.003623	126.46863	0.653250	0.003580	0.003580
	V	165.28619	0.207926	0.002310	166.03436	0.197069	0.002178	166.79889	0.186010	0.002045	0.002045
86	E	126.52015	0.658059	0.003576	126.82080	0.653889	0.003534	127.11839	0.649757	0.003493	0.003493
	V	165.49187	0.205684	0.002242	166.22932	0.194956	0.002113	166.98291	0.184026	0.001984	0.001984
87	E	127.17472	0.654570	0.003489	127.47124	0.650439	0.003450	127.76474	0.646348	0.003409	0.003409
	V	165.69538	0.203508	0.002176	166.42222	0.192904	0.002052	167.16501	0.182100	0.001926	0.001926
88	E	127.82588	0.651164	0.003406	128.11831	0.647073	0.003366	128.40776	0.643021	0.003327	0.003327
	V	165.89678	0.201396	0.002112	166.61314	0.190913	0.002191	167.34524	0.180230	0.001870	0.001870
89	E	128.47372	0.647840	0.003324	128.76210	0.643787	0.003286	129.04753	0.639773	0.003248	0.003248
	V	166.09612	0.199345	0.002051	166.80212	0.188979	0.001934	167.52366	0.178414	0.001816	0.001816
90	E	129.11831	0.644595	0.003245	129.40268	0.640580	0.003207	129.68413	0.636602	0.003171	0.003171
	V	166.29348	0.197353	0.001992	166.98922	0.187100	0.001879	167.70031	0.176650	0.001764	0.001764

ECCENTRICITY		0.88		2ND DIF.		1Q.88		2ND DIF.		0.90		2ND DIF.	
M		1ST DIF.		2ND DIF.		1ST DIF.		2ND DIF.		1ST DIF.		2ND DIF.	
91	E	129.75974	0.641427	0.003168	0.003168	130.04013	0.637448	0.003132	0.003132	130.31764	0.633506	0.003096	0.003096
	V	166.48890	0.195418	0.001935	0.001935	167.17449	0.185275	0.001825	0.001825	167.87524	0.174936	0.001714	0.001714
92	E	130.39808	0.638334	0.003093	0.003093	130.67452	0.634389	0.003059	0.003059	130.94812	0.630483	0.003023	0.003023
	V	166.68243	0.193538	0.001880	0.001880	167.55799	0.183502	0.001773	0.001773	168.04851	0.173270	0.001666	0.001666
93	E	131.03339	0.635313	0.003021	0.003021	131.30592	0.631403	0.002986	0.002986	131.57565	0.627530	0.002953	0.002953
	V	166.87414	0.191711	0.001827	0.001827	167.53977	0.181778	0.001724	0.001724	168.22017	0.171651	0.001619	0.001619
94	E	131.66575	0.632363	0.002950	0.002950	131.93440	0.628486	0.002917	0.002917	132.20030	0.624646	0.002884	0.002884
	V	167.06408	0.189934	0.001777	0.001777	167.71987	0.180102	0.001676	0.001676	168.39024	0.170077	0.001574	0.001574
95	E	132.29523	0.629481	0.002882	0.002882	132.56004	0.625637	0.002849	0.002849	132.82123	0.621829	0.002817	0.002817
	V	167.25229	0.188207	0.001727	0.001727	167.89835	0.178473	0.001629	0.001629	168.55879	0.168547	0.001530	0.001530
96	E	132.92190	0.626667	0.002814	0.002814	133.18290	0.622854	0.002783	0.002783	133.44121	0.619078	0.002751	0.002751
	V	167.43881	0.186528	0.001679	0.001679	168.07523	0.176889	0.001584	0.001584	168.72585	0.167058	0.001489	0.001489
97	E	133.54582	0.623917	0.002750	0.002750	133.80303	0.620135	0.002719	0.002719	134.05759	0.616389	0.002689	0.002689
	V	167.62371	0.184894	0.001634	0.001634	168.25058	0.175348	0.001541	0.001541	168.89146	0.165610	0.001448	0.001448
98	E	134.16705	0.621231	0.002686	0.002686	134.42051	0.617478	0.002657	0.002657	134.67136	0.613762	0.002627	0.002627
	V	167.80701	0.183306	0.001588	0.001588	168.42443	0.173849	0.001499	0.001499	169.05566	0.164202	0.001408	0.001408
99	E	134.78855	0.618606	0.002625	0.002625	135.03539	0.614883	0.002595	0.002595	135.28255	0.611196	0.002566	0.002566
	V	167.98877	0.181760	0.001546	0.001546	168.53682	0.172390	0.001459	0.001459	169.21849	0.162831	0.001371	0.001371
100	E	135.40170	0.616041	0.002565	0.002565	135.64774	0.612346	0.002537	0.002537	135.89124	0.608688	0.002508	0.002508
	V	168.16903	0.180256	0.001504	0.001504	168.76779	0.170971	0.001419	0.001419	169.37999	0.161498	0.001333	0.001333
101	E	136.01523	0.613536	0.002505	0.002505	136.25760	0.609868	0.002478	0.002478	136.49748	0.606237	0.002451	0.002451
	V	168.34782	0.178793	0.001463	0.001463	168.53738	0.169590	0.001381	0.001381	169.54019	0.160200	0.001298	0.001298
102	E	136.62632	0.611087	0.002449	0.002449	136.65055	0.607446	0.002422	0.002422	137.10132	0.603842	0.002395	0.002395
	V	168.52519	0.177368	0.001425	0.001425	169.10563	0.168246	0.001344	0.001344	169.69913	0.158937	0.001263	0.001263
103	E	137.23501	0.608694	0.002393	0.002393	137.47013	0.605080	0.002366	0.002366	137.70282	0.601501	0.002341	0.002341
	V	168.70117	0.175982	0.001386	0.001386	169.27236	0.166937	0.001309	0.001309	169.85683	0.157707	0.001230	0.001230
104	E	137.84137	0.606356	0.002338	0.002338	138.07290	0.602767	0.002313	0.002313	138.30204	0.600214	0.002287	0.002287
	V	168.87580	0.174632	0.001350	0.001350	169.43823	0.165663	0.001274	0.001274	170.01334	0.156510	0.001197	0.001197
105	E	138.44544	0.604070	0.002286	0.002286	138.67340	0.600507	0.002260	0.002260	138.89901	0.596978	0.002236	0.002236
	V	169.04912	0.173319	0.001313	0.001313	169.60265	0.164423	0.001240	0.001240	170.16869	0.155344	0.001166	0.001166
106	E	139.04728	0.601837	0.002233	0.002233	139.71170	0.598298	0.002209	0.002209	139.93381	0.594794	0.002184	0.002184
	V	169.22116	0.172039	0.001280	0.001280	169.67687	0.163216	0.001207	0.001207	170.32290	0.154209	0.001135	0.001135
107	E	139.64693	0.599655	0.002182	0.002182	139.67684	0.596139	0.002159	0.002159	140.08647	0.592658	0.002136	0.002136
	V	169.39196	0.170794	0.001245	0.001245	169.42791	0.162040	0.001176	0.001176	170.47600	0.153104	0.001105	0.001105
108	E	140.24445	0.597522	0.002133	0.002133	140.67617	0.594039	0.002110	0.002110	140.67704	0.590571	0.002087	0.002087
	V	169.56154	0.169581	0.001213	0.001213	170.08880	0.160895	0.001145	0.001145	170.62803	0.152027	0.001077	0.001077
109	E	140.83989	0.595437	0.002085	0.002085	141.05384	0.591967	0.002062	0.002062	141.26557	0.588531	0.002040	0.002040
	V	169.72994	0.168400	0.001181	0.001181	170.44858	0.159780	0.001115	0.001115	170.77901	0.150979	0.001048	0.001048
110	E	141.43329	0.593400	0.002037	0.002037	141.64379	0.589932	0.002015	0.002015	141.85211	0.586538	0.001993	0.001993
	V	169.89719	0.167250	0.001150	0.001150	170.40728	0.158694	0.001086	0.001086	170.92896	0.149958	0.001021	0.001021
111	E	142.02470	0.591409	0.001991	0.001991	142.31777	0.587982	0.001970	0.001970	142.43670	0.584590	0.001948	0.001948
	V	170.06332	0.166129	0.001121	0.001121	170.64911	0.157636	0.001058	0.001058	171.07793	0.148963	0.000995	0.000995
112	E	142.61416	0.589464	0.001945	0.001945	142.81183	0.586038	0.001924	0.001924	143.01938	0.582886	0.001904	0.001904
	V	170.22835	0.165038	0.001091	0.001091	170.72152	0.156606	0.001030	0.001030	171.22592	0.147995	0.000968	0.000968
113	E	143.20173	0.587563	0.001901	0.001901	143.40201	0.584177	0.001881	0.001881	143.60021	0.580826	0.001860	0.001860
	V	170.39233	0.163976	0.001062	0.001062	170.77712	0.155603	0.001003	0.001003	171.37397	0.147051	0.000944	0.000944
114	E	143.78743	0.585706	0.001857	0.001857	143.98435	0.582340	0.001837	0.001837	144.17922	0.579008	0.001818	0.001818
	V	170.55527	0.162941	0.001035	0.001035	171.03175	0.154625	0.000978	0.000978	171.51910	0.146132	0.000919	0.000919
115	E	144.37132	0.583891	0.001815	0.001815	144.56489	0.580544	0.001796	0.001796	144.75645	0.577231	0.001777	0.001777
	V	170.71720	0.161932	0.001009	0.001009	171.18542	0.153673	0.000952	0.000952	171.66434	0.145237	0.000895	0.000895
116	E	144.95344	0.582118	0.001773	0.001773	145.14368	0.578790	0.001754	0.001754	145.33194	0.575496	0.001735	0.001735
	V	170.87815	0.160951	0.000981	0.000981	171.33817	0.152746	0.000927	0.000927	171.80871	0.144365	0.000872	0.000872
117	E	145.53383	0.580386	0.001732	0.001732	145.72076	0.577077	0.001713	0.001713	145.90574	0.573800	0.001696	0.001696
	V	171.03815	0.159994	0.000957	0.000957	171.59001	0.151843	0.000903	0.000903	171.95222	0.143516	0.000849	0.000849
118	E	146.11252	0.578694	0.001692	0.001692	146.29616	0.575403	0.001674	0.001674	146.47789	0.572144	0.001656	0.001656
	V	171.19721	0.159063	0.000931	0.000931	171.44097	0.150963	0.000880	0.000880	172.09491	0.142688	0.000828	0.000828
119	E	146.68956	0.577042	0.001652	0.001652	146.36993	0.573767	0.001636	0.001636	147.04841	0.570526	0.001618	0.001618
	V	171.35537	0.158156	0.000907	0.000907	171.79108	0.150106	0.000857	0.000857	172.23679	0.141882	0.000806	0.000806
120	E	147.26499	0.575428	0.001614	0.001614	147.44210	0.572170	0.001597	0.001597	147.61736	0.568946	0.001580	0.001580
	V	171.51264	0.157272	0.000884	0.000884	171.74535	0.149272	0.000834	0.000834	172.37789	0.141098	0.000784	0.000784

ECCENTRICITY M		0.88		0.89		0.90	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
121	E	147.83884	0.573852	0.570611	0.001559	148.18476	0.001543
	V	171.66905	0.000860	0.148459	0.000813	172.51822	0.000765
122	E	148.41116	0.572313	0.569088	0.001523	148.75066	0.001507
	V	171.82462	0.000838	0.147668	0.000791	172.65781	0.000744
123	E	148.98197	0.570811	0.567602	0.001486	149.31508	0.001471
	V	171.97938	0.000815	0.146898	0.000770	172.79668	0.000725
124	E	149.55131	0.569345	0.566151	0.001451	149.87807	0.001435
	V	172.13335	0.000795	0.146148	0.000750	172.93484	0.000705
125	E	150.11923	0.567914	0.564735	0.001416	150.43966	0.001402
	V	172.28654	0.000773	0.145417	0.000731	173.07231	0.000687
126	E	150.68574	0.566517	0.563353	0.001382	150.99988	0.001367
	V	172.43898	0.000752	0.144707	0.000710	173.20911	0.000669
127	E	151.25090	0.565155	0.562004	0.001349	151.45877	0.001335
	V	172.59068	0.000732	0.144015	0.000692	173.34526	0.001315
128	E	151.81473	0.563826	0.560689	0.001315	152.11635	0.001301
	V	172.74168	0.000713	0.143342	0.000673	173.48078	0.000633
129	E	152.37725	0.562530	0.559407	0.001282	152.67267	0.001269
	V	172.89198	0.000693	0.142687	0.000655	173.61568	0.000617
130	E	152.93852	0.561267	0.558157	0.001250	153.22775	0.001238
	V	173.04160	0.000674	0.142049	0.000638	173.74998	0.000599
131	E	153.49856	0.560036	0.556938	0.001219	153.78162	0.001206
	V	173.19058	0.000656	0.141430	0.000619	173.88371	0.000583
132	E	154.05739	0.558836	0.555750	0.001188	154.33432	0.001175
	V	173.33891	0.000638	0.140827	0.000603	174.01686	0.000567
133	E	154.61506	0.557667	0.554593	0.001157	154.88587	0.001145
	V	173.48662	0.000620	0.140242	0.000585	174.14946	0.000551
134	E	155.17159	0.556528	0.553467	0.001126	155.43631	0.001116
	V	173.63373	0.000602	0.139672	0.000570	174.28153	0.000536
135	E	155.72701	0.555420	0.552370	0.001097	155.98566	0.001085
	V	173.78026	0.000586	0.139119	0.000553	174.441307	0.000520
136	E	156.28135	0.554341	0.551302	0.001068	156.53395	0.001057
	V	173.92621	0.000568	0.138582	0.000537	174.54411	0.000506
137	E	156.83464	0.553292	0.550263	0.001039	157.08122	0.001028
	V	174.07162	0.000552	0.138060	0.000522	174.67466	0.000491
138	E	157.38691	0.552271	0.549253	0.001010	157.62748	0.001000
	V	174.21649	0.000536	0.137554	0.000506	174.80473	0.000477
139	E	157.93819	0.551279	0.548271	0.000982	158.17278	0.000972
	V	174.36084	0.000520	0.137062	0.000492	174.93434	0.000462
140	E	158.48851	0.550315	0.547317	0.000954	158.71713	0.000945
	V	174.50468	0.000505	0.136586	0.000476	175.06350	0.000449
141	E	159.03789	0.549379	0.546390	0.000927	159.26056	0.000917
	V	174.64804	0.000489	0.136123	0.000463	175.19223	0.000435
142	E	159.58636	0.548470	0.545490	0.000900	159.83010	0.000890
	V	174.79092	0.000474	0.135676	0.000447	175.32054	0.000421
143	E	160.13395	0.547588	0.544617	0.000873	160.34478	0.000864
	V	174.93334	0.000459	0.135242	0.000434	175.44843	0.000409
144	E	160.68068	0.546733	0.543771	0.000846	160.88562	0.000838
	V	175.07532	0.000444	0.134822	0.000420	175.57593	0.000395
145	E	161.22658	0.545905	0.542951	0.000820	161.42564	0.000812
	V	175.21687	0.000430	0.134415	0.000407	175.70305	0.000382
146	E	161.77168	0.545102	0.542157	0.000794	161.96489	0.000786
	V	175.35800	0.000416	0.134022	0.000393	175.82980	0.000370
147	E	162.31601	0.544326	0.541388	0.000769	162.50337	0.000761
	V	175.49873	0.000402	0.133642	0.000380	175.95619	0.000358
148	E	162.85959	0.543575	0.540645	0.000743	163.04111	0.000345
	V	175.63907	0.000388	0.133276	0.000366	176.08224	0.000330
149	E	163.40244	0.542850	0.539926	0.000719	163.57815	0.000317
	V	175.77904	0.000374	0.132922	0.000354	176.20795	0.000303
150	E	163.94459	0.542149	0.539233	0.000693	164.11449	0.000287
	V	175.91865	0.000361	0.132581	0.000341	176.33334	0.000321

ECCENTRICITY M		15 th DIF.		2ND DIF.		15 th DIF.		2ND DIF.		15 th DIF.		2ND DIF.	
		0.88	0.89	0.88	0.89	0.88	0.89	0.88	0.89	0.88	0.89	0.88	0.89
151	E	164.48606	0.541473	0.000676	164.56355	0.538564	0.000669	164.65018	0.53685	0.53685	0.000662	0.53685	0.000662
152	V	176.05791	0.139259	0.000348	176.25385	0.132252	0.000329	176.45843	0.125082	0.125082	0.000310	0.125082	0.000310
153	E	165.02688	0.540822	0.000651	165.10347	0.537920	0.000644	165.18522	0.535047	0.535047	0.000638	0.535047	0.000638
154	V	176.19683	0.138925	0.000334	176.38778	0.131936	0.000316	176.58321	0.124785	0.124785	0.000297	0.124785	0.000297
155	E	165.56708	0.540196	0.000626	165.64377	0.537299	0.000621	165.71966	0.534433	0.534433	0.000614	0.534433	0.000614
156	V	176.33543	0.138603	0.000322	176.51941	0.131631	0.000305	176.70771	0.124498	0.124498	0.000287	0.124498	0.000287
157	E	166.10667	0.539593	0.000603	166.18047	0.536703	0.000596	166.25350	0.533842	0.533842	0.000591	0.533842	0.000591
158	V	176.47373	0.138294	0.000309	176.65075	0.131339	0.000292	176.83193	0.124223	0.124223	0.000275	0.124223	0.000275
159	E	166.64569	0.539015	0.000578	166.71660	0.536130	0.000573	166.78878	0.533275	0.533275	0.000567	0.533275	0.000567
160	V	176.61172	0.137997	0.000297	176.78181	0.131059	0.000280	176.95589	0.123960	0.123960	0.000263	0.123960	0.000263
161	E	167.18414	0.538460	0.000585	167.25218	0.535581	0.000549	167.31951	0.532732	0.532732	0.000543	0.532732	0.000543
162	V	176.74944	0.137714	0.000283	176.91260	0.130791	0.000268	177.07960	0.123707	0.123707	0.000253	0.123707	0.000253
163	E	167.72207	0.537929	0.000531	167.78724	0.535055	0.000526	167.85172	0.532211	0.532211	0.000521	0.532211	0.000521
164	V	176.88688	0.137442	0.000272	177.04314	0.130334	0.000257	177.20306	0.123465	0.123465	0.000242	0.123465	0.000242
165	E	168.25949	0.537421	0.000508	168.32179	0.534552	0.000503	168.38343	0.531714	0.531714	0.000497	0.531714	0.000497
166	V	177.02406	0.137183	0.000259	177.17343	0.130289	0.000245	177.32630	0.123235	0.123235	0.000235	0.123235	0.000235
167	E	168.79643	0.536937	0.000484	168.85586	0.534073	0.000479	168.91467	0.531239	0.531239	0.000475	0.531239	0.000475
168	V	177.16100	0.136936	0.000247	177.30348	0.130055	0.000234	177.44931	0.123014	0.123014	0.000221	0.123014	0.000221
169	E	169.33291	0.536476	0.000461	169.39648	0.533616	0.000457	169.44546	0.530787	0.530787	0.000452	0.530787	0.000452
170	V	177.29770	0.136700	0.000236	177.44331	0.129833	0.000222	177.57212	0.122805	0.122805	0.000209	0.122805	0.000209
171	E	169.86895	0.536037	0.000439	169.92366	0.533182	0.000434	169.97581	0.530357	0.530357	0.000430	0.530357	0.000430
172	V	177.43418	0.136477	0.000233	177.56393	0.129622	0.000211	177.69472	0.123606	0.123606	0.000199	0.123606	0.000199
173	E	170.40457	0.535622	0.000415	170.45543	0.532770	0.000412	170.50576	0.529949	0.529949	0.000408	0.529949	0.000408
174	V	177.57044	0.136265	0.000212	177.66236	0.129422	0.000200	177.81174	0.122418	0.122418	0.000188	0.122418	0.000188
175	E	170.93979	0.535229	0.000393	170.96781	0.532381	0.000389	171.03533	0.529564	0.529564	0.000385	0.529564	0.000385
176	V	177.70651	0.136066	0.000199	177.81159	0.129233	0.000189	177.93938	0.122240	0.122240	0.000178	0.122240	0.000178
177	E	171.47465	0.534858	0.000371	171.51583	0.532015	0.000366	171.56453	0.529201	0.529201	0.000363	0.529201	0.000363
178	V	177.84238	0.135877	0.000189	177.91065	0.129055	0.000178	178.06145	0.122073	0.122073	0.000167	0.122073	0.000167
179	E	172.00916	0.534510	0.000348	172.01150	0.531670	0.000345	172.09339	0.528860	0.528860	0.000341	0.528860	0.000341
180	V	177.97808	0.135700	0.000177	178.01953	0.128888	0.000167	178.18337	0.121915	0.121915	0.000158	0.121915	0.000158
181	E	172.54335	0.534184	0.000326	172.51085	0.531347	0.000323	172.62193	0.528540	0.528540	0.000320	0.528540	0.000320
182	V	178.11362	0.133535	0.000165	178.20826	0.128173	0.000157	178.30514	0.121768	0.121768	0.000147	0.121768	0.000147
183	E	173.07723	0.533881	0.000303	173.1389	0.531047	0.000300	173.15017	0.528243	0.528243	0.000297	0.528243	0.000297
184	V	178.24900	0.133531	0.000154	178.31685	0.128586	0.000145	178.42677	0.121631	0.121631	0.000137	0.121631	0.000137
185	E	173.61083	0.533599	0.000282	173.61466	0.530768	0.000279	173.67814	0.527967	0.527967	0.000276	0.527967	0.000276
186	V	178.38424	0.133238	0.000143	178.46530	0.128451	0.000135	178.54827	0.121504	0.121504	0.000127	0.121504	0.000127
187	E	174.14417	0.533340	0.000259	174.11517	0.530511	0.000257	174.20585	0.527713	0.527713	0.000254	0.527713	0.000254
188	V	178.51934	0.133107	0.000131	178.51363	0.128327	0.000124	178.66966	0.121387	0.121387	0.000117	0.121387	0.000117
189	E	174.67727	0.533102	0.000238	174.70545	0.530276	0.000235	174.73333	0.527480	0.527480	0.000233	0.527480	0.000233
190	V	178.65433	0.134987	0.000120	178.72184	0.128213	0.000114	178.79094	0.121280	0.121280	0.000107	0.121280	0.000107
191	E	175.21016	0.532886	0.000216	175.23551	0.530062	0.000214	175.26060	0.527268	0.527268	0.000212	0.527268	0.000212
192	V	178.78921	0.134877	0.000110	178.81495	0.128110	0.000103	178.91212	0.121183	0.121183	0.000097	0.121183	0.000097
193	E	175.74285	0.532692	0.000194	175.75538	0.529870	0.000192	175.78768	0.527078	0.527078	0.000190	0.527078	0.000190
194	V	178.92399	0.134779	0.000098	178.97797	0.128017	0.000093	179.03322	0.121095	0.121095	0.000088	0.121095	0.000088
195	E	176.27537	0.532520	0.000172	176.29350	0.529700	0.000170	176.31459	0.526909	0.526909	0.000169	0.526909	0.000169
196	V	179.05868	0.134692	0.000087	179.13590	0.127934	0.000083	179.15423	0.121018	0.121018	0.000077	0.121018	0.000077
197	E	176.80774	0.532370	0.000150	176.82463	0.529551	0.000149	176.84135	0.526762	0.526762	0.000147	0.526762	0.000147
198	V	179.19330	0.134616	0.000076	179.23376	0.127862	0.000072	179.27518	0.120950	0.120950	0.000068	0.120950	0.000068
199	E	177.33998	0.532241	0.000129	177.35400	0.529423	0.000128	177.36798	0.526635	0.526635	0.000127	0.526635	0.000127
200	V	179.32785	0.134551	0.000065	179.36156	0.127801	0.000061	179.39608	0.120892	0.120892	0.000058	0.120892	0.000058
201	E	177.87211	0.532133	0.000108	177.88337	0.529317	0.000106	177.89451	0.526530	0.526530	0.000105	0.526530	0.000105
202	V	179.46234	0.134496	0.000055	179.48931	0.127749	0.000052	179.51692	0.120843	0.120843	0.000049	0.120843	0.000049
203	E	178.40416	0.532047	0.000086	178.41260	0.529232	0.000085	178.42096	0.526446	0.526446	0.000084	0.526446	0.000084
204	V	179.59680	0.134453	0.000043	179.61702	0.127708	0.000041	179.63734	0.120805	0.120805	0.000038	0.120805	0.000038
205	E	178.93614	0.531983	0.000064	178.94177	0.529168	0.000064	178.94734	0.526382	0.526382	0.000064	0.526382	0.000064
206	V	179.73122	0.134420	0.000033	179.74470	0.127677	0.000031	179.75850	0.120776	0.120776	0.000029	0.120776	0.000029
207	E	179.46808	0.531940	0.000043	179.47090	0.529125	0.000043	179.47368	0.526340	0.526340	0.000042	0.526340	0.000042
208	V	179.86561	0.134399	0.000021	179.87236	0.127657	0.000020	179.87926	0.120756	0.120756	0.000021	0.120756	0.000021
209	E	180.00000	0.531918	0.000022	180.00000	0.529104	0.000021	180.00000	0.526319	0.526319	0.000021	0.526319	0.000021
210	V	180.00000	0.534388	0.000011	180.00000	0.127647	0.000010	180.00000	0.120747	0.120747	0.000009	0.120747	0.000009

ECCENTRICITY M		0.91		0.92		0.93	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
1	E	10.51527	11.59234	12.85609	12.85609	12.85609	12.85609
2	V	45.94618	52.88132	61.21541	61.21541	61.21541	61.21541
3	E	18.81921	20.21024	21.71459	21.71459	21.71459	21.71459
4	V	74.71893	82.24796	90.40514	90.40514	90.40514	90.40514
5	E	25.19872	28.77254	29.366639	29.366639	29.366639	29.366639
6	V	91.67547	6.379512	6.402888	6.402888	6.402888	6.402888
7	E	30.32633	1.924430	1.924430	1.924430	1.924430	1.924430
8	V	102.61097	11.816214	11.816214	11.816214	11.816214	11.816214
9	E	34.62746	1.251901	1.251901	1.251901	1.251901	1.251901
10	V	120.29705	5.127611	5.127611	5.127611	5.127611	5.127611
11	E	38.35158	108.55984	108.55984	108.55984	108.55984	108.55984
12	V	116.05550	35.93502	35.93502	35.93502	35.93502	35.93502
13	E	41.65177	115.62398	115.62398	115.62398	115.62398	115.62398
14	V	120.57576	7.063948	7.063948	7.063948	7.063948	7.063948
15	E	44.62745	3.664867	3.664867	3.664867	3.664867	3.664867
16	V	124.24983	5.271618	5.271618	5.271618	5.271618	5.271618
17	E	116.05550	1.792330	1.792330	1.792330	1.792330	1.792330
18	V	41.65177	4.423529	4.423529	4.423529	4.423529	4.423529
19	E	127.31701	125.02809	125.02809	125.02809	125.02809	125.02809
20	V	49.85735	45.77176	45.77176	45.77176	45.77176	45.77176
21	E	129.93200	128.38671	128.38671	128.38671	128.38671	128.38671
22	V	56.45599	2.674514	2.674514	2.674514	2.674514	2.674514
23	E	135.96675	131.19177	131.19177	131.19177	131.19177	131.19177
24	V	63.77040	50.91679	50.91679	50.91679	50.91679	50.91679
25	E	145.54737	133.58494	133.58494	133.58494	133.58494	133.58494
26	V	71.42232	53.21836	53.21836	53.21836	53.21836	53.21836
27	E	146.37945	135.66181	135.66181	135.66181	135.66181	135.66181
28	V	68.51679	55.37751	55.37751	55.37751	55.37751	55.37751
29	E	144.64447	137.48945	137.48945	137.48945	137.48945	137.48945
30	V	69.99242	57.41477	57.41477	57.41477	57.41477	57.41477
31	E	145.54737	140.57918	140.57918	140.57918	140.57918	140.57918
32	V	71.42232	61.18559	61.18559	61.18559	61.18559	61.18559
33	E	146.37945	141.90511	141.90511	141.90511	141.90511	141.90511
34	V	68.51679	62.94392	62.94392	62.94392	62.94392	62.94392
35	E	144.64447	143.11576	143.11576	143.11576	143.11576	143.11576
36	V	69.99242	64.62760	64.62760	64.62760	64.62760	64.62760
37	E	145.54737	144.22811	144.22811	144.22811	144.22811	144.22811
38	V	71.42232	66.24683	66.24683	66.24683	66.24683	66.24683
39	E	146.37945	145.25381	145.25381	145.25381	145.25381	145.25381
40	V	68.51679	67.80705	67.80705	67.80705	67.80705	67.80705
41	E	144.64447	146.20995	146.20995	146.20995	146.20995	146.20995
42	V	69.99242	69.31368	69.31368	69.31368	69.31368	69.31368
43	E	145.54737	147.09967	147.09967	147.09967	147.09967	147.09967
44	V	71.42232	70.77143	70.77143	70.77143	70.77143	70.77143
45	E	146.37945	147.93257	147.93257	147.93257	147.93257	147.93257
46	V	68.51679	72.18435	72.18435	72.18435	72.18435	72.18435
47	E	144.64447	148.71504	148.71504	148.71504	148.71504	148.71504
48	V	69.99242	73.55604	73.55604	73.55604	73.55604	73.55604
49	E	145.54737	149.45249	149.45249	149.45249	149.45249	149.45249
50	V	71.42232	74.88962	74.88962	74.88962	74.88962	74.88962
51	E	146.37945	150.14954	150.14954	150.14954	150.14954	150.14954
52	V	68.51679	76.18788	76.18788	76.18788	76.18788	76.18788
53	E	144.64447	150.81016	150.81016	150.81016	150.81016	150.81016
54	V	69.99242	77.45332	77.45332	77.45332	77.45332	77.45332
55	E	145.54737	151.43777	151.43777	151.43777	151.43777	151.43777
56	V	71.42232	78.68814	78.68814	78.68814	78.68814	78.68814
57	E	146.37945	152.03539	152.03539	152.03539	152.03539	152.03539
58	V	68.51679	79.89433	79.89433	79.89433	79.89433	79.89433
59	E	144.64447	152.60562	152.60562	152.60562	152.60562	152.60562
60	V	69.99242	81.07371	81.07371	81.07371	81.07371	81.07371
61	E	145.54737	153.15078	153.15078	153.15078	153.15078	153.15078
62	V	71.42232	82.27289	82.27289	82.27289	82.27289	82.27289
63	E	146.37945	153.67289	153.67289	153.67289	153.67289	153.67289
64	V	68.51679	153.67289	153.67289	153.67289	153.67289	153.67289
65	E	144.64447	153.67289	153.67289	153.67289	153.67289	153.67289
66	V	69.99242	153.67289	153.67289	153.67289	153.67289	153.67289
67	E	145.54737	153.67289	153.67289	153.67289	153.67289	153.67289
68	V	71.42232	153.67289	153.67289	153.67289	153.67289	153.67289
69	E	146.37945	153.67289	153.67289	153.67289	153.67289	153.67289
70	V	68.51679	153.67289	153.67289	153.67289	153.67289	153.67289
71	E	144.64447	153.67289	153.67289	153.67289	153.67289	153.67289
72	V	69.99242	153.67289	153.67289	153.67289	153.67289	153.67289
73	E	145.54737	153.67289	153.67289	153.67289	153.67289	153.67289
74	V	71.42232	153.67289	153.67289	153.67289	153.67289	153.67289
75	E	146.37945	153.67289	153.67289	153.67289	153.67289	153.67289
76	V	68.51679	153.67289	153.67289	153.67289	153.67289	153.67289
77	E	144.64447	153.67289	153.67289	153.67289	153.67289	153.67289
78	V	69.99242	153.67289	153.67289	153.67289	153.67289	153.67289
79	E	145.54737	153.67289	153.67289	153.67289	153.67289	153.67289
80	V	71.42232	153.67289	153.67289	153.67289	153.67289	153.67289
81	E	146.37945	153.67289	153.67289	153.67289	153.67289	153.67289
82	V	68.51679	153.67289	153.67289	153.67289	153.67289	153.67289
83	E	144.64447	153.67289	153.67289	153.67289	153.67289	153.67289
84	V	69.99242	153.67289	153.67289	153.67289	153.67289	153.67289
85	E	145.54737	153.67289	153.67289	153.67289	153.67289	153.67289
86	V	71.42232	153.67289	153.67289	153.67289	153.67289	153.67289
87	E	146.37945	153.67289	153.67289	153.67289	153.67289	153.67289
88	V	68.51679	153.67289	153.67289	153.67289	153.67289	153.67289
89	E	144.64447	153.67289	153.67289	153.67289	153.67289	153.67289
90	V	69.99242	153.67289	153.67289	153.67289	153.67289	153.67289
91	E	145.54737	153.67289	153.67289	153.67289	153.67289	153.67289
92	V	71.42232	153.67289	153.67289	153.67289	153.67289	153.67289
93	E	146.37945	153.67289	153.67289	153.67289	153.67289	153.67289
94	V	68.51679	153.67289	153.67289	153.67289	153.67289	153.67289
95	E	144.64447	153.67289	153.67289	153.67289	153.67289	153.67289
96	V	69.99242	153.67289	153.67289	153.67289	153.67289	153.67289
97	E	145.54737	153.67289	153.67289	153.67289	153.67289	153.67289
98	V	71.42232	153.67289	153.67289	153.67289	153.67289	153.67289
99	E	146.37945	153.67289	153.67289	153.67289	153.67289	153.67289
100	V	68.51679	153.67289	153.67289	153.67289	153.67289	153.67289

ECCENTRICITY M	1st DIF.	2ND DIF.	1st 2 DIF.	2ND DIF.	1st 3 DIF.	2ND DIF.	1st 4 DIF.	2ND DIF.
31 E	82.71870	1.141972	0.024144	0.023106	83.35137	1.130473	0.023711	0.023277
32 V	152.29745	0.540710	0.023106	0.022123	154.17176	0.500876	0.021234	0.019348
33 E	83.83791	1.119208	0.022764	0.022123	84.46648	1.081111	0.022362	0.019348
34 V	152.81681	0.519366	0.021344	0.021344	154.65102	0.481256	0.019620	0.019348
35 E	84.93562	1.097705	0.021503	0.021503	85.55146	1.086983	0.021128	0.017887
36 V	153.31641	0.499600	0.019766	0.019766	155.111810	0.463078	0.018178	0.017887
37 E	86.01297	1.077358	0.020347	0.020347	86.621045	1.066988	0.019995	0.016577
38 V	153.79766	0.481250	0.018350	0.018350	155.564729	0.446157	0.016881	0.016577
39 E	87.07105	1.058075	0.019283	0.019283	87.66448	1.048033	0.018955	0.015401
40 V	154.26184	0.464176	0.017074	0.017074	155.99448	0.433048	0.015713	0.015401
41 E	88.11082	1.039771	0.018304	0.018304	88.69152	1.030038	0.017995	0.018625
42 V	154.71009	0.448254	0.015922	0.015922	156.411050	0.415877	0.014657	0.018625
43 E	89.13319	1.022373	0.017398	0.017398	89.71145	1.012930	0.017108	0.018625
44 V	155.13437	0.433378	0.014876	0.014876	156.81173	0.402128	0.013699	0.018625
45 E	90.13901	1.005813	0.016560	0.016560	90.70109	0.996643	0.016287	0.018625
46 V	155.56292	0.419452	0.013926	0.013926	157.20103	0.389300	0.012828	0.018625
47 E	91.12904	0.990301	0.015782	0.015782	91.68421	0.981118	0.015525	0.018625
48 V	155.96931	0.406391	0.013061	0.013061	157.57430	0.377265	0.012035	0.018625
49 E	92.10401	0.974972	0.015059	0.015059	92.65151	0.966302	0.014816	0.01998
50 V	156.36344	0.394122	0.012269	0.012269	157.94125	0.365957	0.011308	0.01998
51 E	93.06460	0.960586	0.014386	0.014386	93.60166	0.952147	0.014155	0.01998
52 V	156.74601	0.382577	0.011545	0.011545	158.30057	0.355313	0.010844	0.01998
53 E	94.01143	0.946830	0.013756	0.013756	94.54627	0.938608	0.013539	0.01998
54 V	157.11771	0.371697	0.010880	0.010880	158.64495	0.345280	0.010033	0.01998
55 E	94.94509	0.933661	0.013169	0.013169	95.47191	0.925645	0.012963	0.01998
56 V	157.47914	0.361429	0.010268	0.010268	158.98166	0.335808	0.009472	0.01998
57 E	95.86613	0.921042	0.012619	0.012619	96.38313	0.913222	0.012423	0.01998
58 V	157.83086	0.351725	0.009704	0.009704	159.30851	0.323855	0.008953	0.01998
59 E	96.77507	0.908940	0.012102	0.012102	97.28484	0.901306	0.011916	0.01998
60 V	158.17341	0.342543	0.009182	0.009182	159.62489	0.318380	0.008475	0.01998
61 E	97.67239	0.897323	0.011617	0.011617	98.17531	0.889866	0.011440	0.01998
62 V	158.50725	0.333842	0.008701	0.008701	159.93734	0.310349	0.008031	0.01998
63 E	98.55855	0.886162	0.011161	0.011161	99.05118	0.878873	0.010993	0.01998
64 V	158.83284	0.325589	0.008253	0.008253	160.23397	0.302728	0.007621	0.01998
65 E	99.43398	0.875430	0.010732	0.010732	99.92348	0.868302	0.010571	0.01998
66 V	159.15059	0.317751	0.007838	0.007838	160.53346	0.295340	0.007238	0.01998
67 E	100.29909	0.865104	0.010326	0.010326	100.78161	0.858129	0.010173	0.01998
68 V	159.46089	0.310298	0.007453	0.007453	160.82106	0.288606	0.006884	0.01998
69 E	101.15425	0.855160	0.009944	0.009944	101.62394	0.848331	0.009798	0.01998
70 V	159.76409	0.303206	0.007092	0.007092	161.10312	0.282053	0.006553	0.01998
71 E	101.99983	0.843579	0.009581	0.009581	102.46383	0.838889	0.009442	0.01998
72 V	160.06054	0.296449	0.006757	0.006757	161.38193	0.275809	0.006244	0.01998
73 E	102.83617	0.836340	0.009239	0.009239	103.29361	0.829784	0.009105	0.01998
74 V	160.35055	0.290006	0.006443	0.006443	161.65178	0.269854	0.005955	0.01998
75 E	103.66359	0.827425	0.008915	0.008915	104.111961	0.820997	0.008787	0.01998
76 V	160.63441	0.283857	0.006149	0.006149	161.91355	0.264169	0.005685	0.01998
77 E	104.48241	0.818819	0.008606	0.008606	104.93212	0.812513	0.008484	0.01998
78 V	160.51239	0.277982	0.005875	0.005875	162.17459	0.258738	0.005431	0.01998
79 E	105.92291	0.810504	0.008315	0.008315	105.73544	0.804316	0.008197	0.01998
80 V	161.18475	0.272366	0.005616	0.005616	162.42823	0.253544	0.005194	0.01998
81 E	106.09538	0.802468	0.008036	0.008036	106.53283	0.796393	0.007923	0.01998
82 V	161.45174	0.266991	0.005375	0.005375	162.67680	0.248573	0.004971	0.01998
83 E	106.89008	0.794697	0.007771	0.007771	107.32156	0.788730	0.007663	0.01998
84 V	161.71359	0.261845	0.005146	0.005146	162.92262	0.243812	0.004761	0.01998
85 E	107.67726	0.787178	0.007519	0.007519	108.10288	0.781314	0.007416	0.01998
86 V	161.97050	0.256913	0.004932	0.004932	163.15986	0.239249	0.004563	0.01998
87 E	108.45716	0.779898	0.007280	0.007280	108.87701	0.774135	0.007179	0.01998
88 V	162.22269	0.252184	0.004729	0.004729	163.39474	0.234377	0.004377	0.01998
89 E	109.23000	0.772848	0.007050	0.007050	109.64419	0.767181	0.006954	0.01998
90 V	162.47033	0.247645	0.004539	0.004539	163.62541	0.230671	0.004201	0.01998

ECCENTRICITY M		0.91		0.92		0.93	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
61	E	109.99602	0.766017	0.006831	110.40463	0.760442	0.006739
	V	162.71362	0.243287	0.004358	163.85205	0.222637	0.006739
62	E	110.75542	0.759396	0.006621	111.15854	0.753909	0.006533
	V	162.95272	0.239098	0.004189	164.07481	0.222760	0.003877
63	E	111.50839	0.752974	0.006422	111.90612	0.747573	0.006336
	V	163.18779	0.235072	0.004026	164.29384	0.219031	0.003129
64	E	112.25514	0.746744	0.006230	112.64754	0.741426	0.006147
	V	163.41899	0.231198	0.003874	164.50928	0.215443	0.003588
65	E	112.99583	0.740697	0.006047	113.38300	0.735459	0.005967
	V	163.64645	0.227469	0.003729	164.72127	0.211990	0.003453
66	E	113.73066	0.734826	0.005871	114.11266	0.729865	0.005794
	V	163.87033	0.223877	0.003592	164.92993	0.208663	0.003327
67	E	114.45978	0.729124	0.005702	114.83670	0.724037	0.005628
	V	164.09075	0.220416	0.003461	165.13539	0.205456	0.003207
68	E	115.18337	0.723584	0.005540	115.55527	0.718568	0.005469
	V	164.30783	0.217079	0.003337	165.33775	0.202364	0.003092
69	E	115.90157	0.718199	0.005385	116.26852	0.713253	0.005315
	V	164.52169	0.213860	0.003219	165.53713	0.199382	0.002982
70	E	116.61453	0.712964	0.005235	116.97661	0.708085	0.005168
	V	164.73244	0.210754	0.003106	165.73364	0.196503	0.002879
71	E	117.32240	0.707873	0.005091	117.67967	0.703059	0.005026
	V	164.94020	0.207755	0.002999	165.92736	0.193723	0.002780
72	E	118.02532	0.702920	0.004953	118.37784	0.698169	0.004890
	V	165.14505	0.204858	0.002897	166.11840	0.191037	0.002886
73	E	118.72342	0.698101	0.004819	119.07125	0.693410	0.004759
	V	165.34711	0.202058	0.002800	166.30684	0.188442	0.002595
74	E	119.41683	0.693410	0.004691	119.76002	0.688778	0.004632
	V	165.54646	0.199352	0.002706	166.49277	0.185932	0.002510
75	E	120.10568	0.688843	0.004567	120.44429	0.684267	0.004511
	V	165.74320	0.196734	0.002618	166.67628	0.183505	0.002427
76	E	120.79007	0.684395	0.004448	121.12416	0.679875	0.004392
	V	165.93740	0.194202	0.002532	166.85743	0.181157	0.002348
77	E	121.47014	0.680063	0.004332	121.79976	0.675596	0.004279
	V	166.12915	0.191751	0.002451	167.03632	0.178884	0.002273
78	E	122.14598	0.675842	0.004221	122.47119	0.671426	0.004170
	V	166.31853	0.189378	0.002373	167.21300	0.176683	0.002201
79	E	122.81771	0.671729	0.004113	123.13855	0.667363	0.004063
	V	166.50561	0.187080	0.002298	167.38755	0.174351	0.002132
80	E	123.48543	0.667719	0.004010	123.80195	0.663402	0.003961
	V	166.69046	0.184853	0.002227	167.56003	0.172485	0.002066
81	E	124.14924	0.663810	0.003909	124.46149	0.659541	0.003861
	V	166.87316	0.182695	0.002158	167.73032	0.170483	0.002002
82	E	124.80923	0.659998	0.003812	125.11727	0.655775	0.003766
	V	167.05376	0.180603	0.002092	167.89906	0.168541	0.001942
83	E	125.46552	0.656281	0.003717	125.76937	0.652102	0.003673
	V	167.23233	0.178574	0.002029	168.06572	0.166659	0.001882
84	E	126.11817	0.652655	0.003626	126.41789	0.648519	0.003583
	V	167.40894	0.176606	0.001968	168.23035	0.164832	0.001827
85	E	126.76729	0.649117	0.003538	127.06231	0.645023	0.003496
	V	167.58364	0.174697	0.001909	168.39361	0.163360	0.001772
86	E	127.41295	0.645665	0.003452	127.70452	0.641612	0.003411
	V	167.75648	0.172844	0.001853	168.55495	0.161340	0.001720
87	E	128.05525	0.642296	0.003369	128.34281	0.638282	0.003330
	V	167.92752	0.171044	0.001800	168.71462	0.159670	0.001670
88	E	128.69425	0.639007	0.003289	128.97784	0.635032	0.003250
	V	168.09682	0.169298	0.001746	168.87267	0.158048	0.001622
89	E	129.33005	0.635797	0.003210	129.60970	0.631860	0.003172
	V	168.26442	0.167601	0.001697	169.02914	0.156472	0.001576
90	E	129.96272	0.632663	0.003134	130.23846	0.628762	0.003098
	V	168.43037	0.165952	0.001649	169.18408	0.154942	0.001530

ECCENTRICITY
M

		0 ⁹¹ 1ST DIF.	2ND DIF.	0 ⁹² 1ST DIF.	2ND DIF.	0 ⁹³ 1ST DIF.	2ND DIF.
91	E	130.59232	0.629603	130.84420	0.625737	131.13331	0.621909
	V	168.59472	0.164351	169.33754	0.153455	170.10977	0.142161
92	E	131.21893	0.626614	131.43698	0.622783	131.75230	0.618989
	V	168.75752	0.162794	169.43954	0.152009	170.25060	0.140830
93	E	131.84263	0.623695	132.10688	0.619897	132.36844	0.616137
	V	168.91880	0.161281	169.64015	0.150604	170.35913	0.139555
94	E	132.46347	0.620844	132.73296	0.617079	132.59817	0.613351
	V	169.07861	0.159810	169.73938	0.149237	170.52841	0.138276
95	E	133.08153	0.618059	133.33828	0.614326	133.59242	0.610639
	V	169.23699	0.158379	169.93729	0.147909	170.66546	0.137051
96	E	133.69687	0.615338	133.94992	0.611636	134.20039	0.607970
	V	169.39398	0.156988	170.03391	0.146616	170.80132	0.135860
97	E	134.30955	0.612680	134.53893	0.609008	134.80576	0.605372
	V	169.54961	0.155635	170.23927	0.145359	170.93602	0.134701
98	E	134.91963	0.610083	135.14537	0.606440	135.40859	0.602539
	V	169.70393	0.154318	170.33741	0.144136	171.06960	0.133574
99	E	135.52718	0.607545	135.70929	0.603931	136.00894	0.600352
	V	169.85697	0.153037	170.51635	0.142945	171.20207	0.132477
100	E	136.13224	0.605065	136.33707	0.601478	136.60687	0.597927
	V	170.00876	0.151790	170.63814	0.141787	171.33348	0.131409
101	E	136.73488	0.602642	136.93986	0.599082	137.20243	0.595557
	V	170.15933	0.150576	170.73880	0.140659	171.46385	0.130369
102	E	137.33516	0.600273	137.50660	0.596740	137.79567	0.593241
	V	170.30873	0.149395	170.93836	0.139562	171.53961	0.129357
103	E	137.93312	0.597959	138.10105	0.594451	138.83665	0.590978
	V	170.45697	0.148245	171.01685	0.138493	171.72158	0.128372
104	E	138.52881	0.595696	138.73326	0.592214	138.97541	0.588765
	V	170.60410	0.147126	171.21430	0.137453	171.84899	0.127413
105	E	139.12230	0.593485	139.33329	0.590027	139.56201	0.586603
	V	170.75014	0.146035	171.34074	0.136439	171.97547	0.126478
106	E	139.71362	0.591324	139.93118	0.587890	140.14650	0.584489
	V	170.89511	0.144974	171.43620	0.135453	172.10104	0.125569
107	E	140.30283	0.589212	140.51698	0.585801	140.72893	0.582423
	V	171.03905	0.143940	171.63069	0.134492	172.22572	0.124683
108	E	140.89998	0.587148	141.10074	0.583759	141.35093	0.580404
	V	171.18198	0.142933	171.73424	0.133556	172.34954	0.123819
109	E	141.47511	0.585130	141.63250	0.581763	141.88776	0.578430
	V	171.32393	0.141953	171.83689	0.132644	172.47252	0.122979
110	E	142.05827	0.583159	142.26231	0.579813	142.46426	0.576501
	V	171.46493	0.140998	172.03864	0.131756	172.59468	0.122160
111	E	142.63950	0.581231	142.84022	0.577907	143.03888	0.574616
	V	171.60500	0.140067	172.14954	0.130892	172.71604	0.121362
112	E	143.21885	0.579348	143.43626	0.576044	143.61165	0.572773
	V	171.74416	0.139161	172.23958	0.130049	172.83663	0.120585
113	E	143.79636	0.577508	143.99049	0.574223	144.18262	0.570972
	V	171.88244	0.138278	172.40881	0.129228	172.95646	0.119828
114	E	144.37207	0.575709	144.56293	0.572444	144.75183	0.569212
	V	172.01986	0.137418	172.51724	0.128429	173.07554	0.119090
115	E	144.94602	0.573952	145.13364	0.570706	145.31932	0.567492
	V	172.15644	0.136581	172.63489	0.127650	173.19392	0.118372
116	E	145.51826	0.572235	145.70264	0.569007	145.88514	0.565812
	V	172.29220	0.135765	172.73178	0.126891	173.31159	0.117672
117	E	146.08881	0.570557	146.26999	0.567347	146.44931	0.564170
	V	172.42717	0.134970	172.93793	0.126152	173.42858	0.116990
118	E	146.65773	0.568919	146.83572	0.565726	147.01167	0.562566
	V	172.56137	0.134196	173.03337	0.125432	173.54490	0.116325
119	E	147.22505	0.567318	147.39986	0.564142	147.57287	0.560999
	V	172.69481	0.133442	173.10810	0.124731	173.66058	0.115678
120	E	147.79080	0.565755	147.96245	0.562595	148.13234	0.559468
	V	172.82752	0.132707	173.23214	0.124048	173.77563	0.115048

ECCENTRICITY M		0.91		0.92		0.93	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
121	E	148.35503	0.564228	148.52354	0.001527	148.69031	0.001510
122	V	172.95951	0.131992	173.41553	0.000715	173.89006	0.000666
123	E	148.91777	0.562737	149.08315	0.001491	149.24683	0.001475
124	V	173.09081	0.131295	173.53826	0.000597	174.00390	0.000648
125	E	149.47905	0.561281	149.64132	0.001456	149.80192	0.001441
126	V	173.22142	0.130617	173.66037	0.000678	174.11715	0.000631
127	E	150.03891	0.559861	150.19808	0.001420	150.35561	0.001406
128	V	173.35138	0.129956	173.78185	0.000661	174.22984	0.000614
129	E	150.59738	0.558474	150.75347	0.001387	150.90796	0.001372
130	V	173.48069	0.129313	173.90275	0.000643	174.34198	0.000598
131	E	151.15450	0.557121	151.30753	0.001353	151.45897	0.001335
132	V	173.60938	0.128688	174.02305	0.000625	174.45357	0.000582
133	E	151.71030	0.555800	151.86027	0.001321	152.00869	0.001306
134	V	173.73746	0.128078	174.14280	0.000610	174.56465	0.000567
135	E	152.26482	0.554512	152.41174	0.001288	152.55715	0.001275
136	V	173.86494	0.127485	174.26199	0.000593	174.67521	0.000552
137	E	152.81807	0.553256	152.96197	0.001256	153.10438	0.001243
138	V	173.99185	0.126909	174.38064	0.000576	174.78528	0.000536
139	E	153.37011	0.552032	153.51099	0.001224	153.65042	0.001212
140	V	174.11820	0.126347	174.49877	0.000562	174.89487	0.000522
141	E	153.92094	0.550838	154.05882	0.001194	154.19528	0.001181
142	V	174.24400	0.125802	174.61640	0.000545	175.00399	0.000508
143	E	154.47062	0.549675	154.60550	0.001163	154.73900	0.001151
144	V	174.36927	0.125271	174.73353	0.000531	175.11265	0.000494
145	E	155.01916	0.548541	155.15107	0.001134	155.28161	0.001122
146	V	174.49403	0.124755	174.85018	0.000516	175.22087	0.000480
147	E	155.56660	0.547438	155.69554	0.001103	155.82314	0.001092
148	V	174.61828	0.124253	174.96636	0.000502	175.32866	0.000467
149	E	156.11296	0.546363	156.23894	0.001075	156.36362	0.001064
150	V	174.74204	0.123766	175.08209	0.000487	175.43604	0.000453
151	E	156.65828	0.545317	156.78131	0.001046	156.90308	0.001035
152	V	174.86534	0.123292	175.19738	0.000474	175.54300	0.000441
153	E	157.20258	0.544299	157.31224	0.001018	157.44154	0.001007
154	V	174.98817	0.122833	175.31224	0.000459	175.64957	0.000428
155	E	157.74589	0.543330	157.86306	0.000989	157.97903	0.000980
156	V	175.11056	0.122386	175.42669	0.000447	175.55575	0.000415
157	E	158.28823	0.542055	158.40249	0.000962	158.51557	0.000952
158	V	175.23251	0.121953	175.54073	0.000433	175.86157	0.000403
159	E	158.82965	0.541413	158.94100	0.000935	159.05120	0.000926
160	V	175.35404	0.121533	175.65438	0.000420	175.96702	0.000391
161	E	159.37015	0.540505	159.47861	0.000908	159.58594	0.000898
162	V	175.47517	0.121126	175.76765	0.000407	176.07212	0.000379
163	E	159.90977	0.539623	160.01534	0.000882	160.11982	0.000873
164	V	175.59590	0.120731	175.88056	0.000395	176.17689	0.000367
165	E	160.44854	0.538768	160.55123	0.000855	160.65286	0.000846
166	V	175.71625	0.120349	175.99311	0.000382	176.28132	0.000356
167	E	160.98648	0.537939	161.08630	0.000829	161.18508	0.000821
168	V	175.83623	0.119979	176.10531	0.000370	176.38544	0.000345
169	E	161.52362	0.537135	161.62057	0.000804	161.71652	0.000796
170	V	175.95585	0.119620	176.21719	0.000359	176.48925	0.000333
171	E	162.05997	0.536357	162.15407	0.000778	162.24720	0.000770
172	V	176.07512	0.119274	176.32874	0.000346	176.59276	0.000323
173	E	162.59558	0.535603	162.68683	0.000754	162.77714	0.000746
174	V	176.19406	0.118939	176.43997	0.000335	176.69598	0.000311
175	E	163.13045	0.534875	163.21886	0.000728	163.30636	0.000721
176	V	176.31268	0.118616	176.50091	0.000323	176.79893	0.000301
177	E	163.66462	0.534171	163.75020	0.000704	163.83490	0.000697
178	V	176.43098	0.118304	176.66156	0.000312	176.90160	0.000290
179	E	164.19811	0.533492	164.28087	0.000679	164.36276	0.000673
180	V	176.54898	0.118003	176.77192	0.000301	177.00402	0.000280

ECCENTRICITY M		0.91			0.92			0.93		
		1ST DIF.	2ND DIF.	1ST DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
151	E	164.73095	0.532836	164.81088	0.530017	0.000648	164.88999	0.527226	0.000643	0.000643
152	V	176.66670	0.117713	176.88202	0.110097	0.000270	177.10619	0.102170	0.000249	0.000249
153	E	165.26315	0.532204	165.34027	0.529391	0.000626	165.41660	0.526607	0.000619	0.000619
154	V	176.78413	0.117434	176.99186	0.109837	0.000260	177.20812	0.101930	0.000240	0.000240
155	E	165.79475	0.531596	165.86506	0.528789	0.000602	165.94261	0.526011	0.000596	0.000596
156	V	176.90130	0.117166	177.10144	0.109588	0.000249	177.30982	0.101699	0.000231	0.000231
157	E	166.32576	0.531012	166.39128	0.528211	0.000578	166.46805	0.525438	0.000573	0.000573
158	V	177.01821	0.116909	177.21079	0.109348	0.000240	177.41130	0.101478	0.000221	0.000221
159	E	166.85621	0.530451	166.92493	0.527655	0.000556	166.99294	0.524888	0.000550	0.000550
160	V	177.13487	0.116662	177.31591	0.109118	0.000250	177.51256	0.101266	0.000212	0.000212
161	E	167.38613	0.529912	167.45205	0.527122	0.000533	167.51730	0.523373	0.000527	0.000527
162	V	177.25129	0.116425	177.42181	0.108898	0.000220	177.61363	0.101062	0.000204	0.000204
163	E	167.91552	0.529397	167.97466	0.526612	0.000510	168.04115	0.523856	0.000505	0.000505
164	V	177.36749	0.116199	177.53149	0.108687	0.000211	177.71449	0.100867	0.000195	0.000195
165	E	168.44443	0.528904	168.50479	0.526124	0.000488	168.56453	0.523373	0.000483	0.000483
166	V	177.48347	0.115982	177.64598	0.108486	0.000201	177.81518	0.100682	0.000185	0.000185
167	E	168.97286	0.528434	169.03045	0.525659	0.000465	169.08744	0.522912	0.000461	0.000461
168	V	177.59925	0.115776	177.75727	0.108234	0.000192	177.91568	0.100504	0.000178	0.000178
169	E	169.50085	0.527987	169.55566	0.525216	0.000443	169.60991	0.522473	0.000439	0.000439
170	V	177.71483	0.115580	177.86378	0.108111	0.000183	178.01602	0.100336	0.000168	0.000168
171	E	170.02841	0.527561	170.08046	0.524794	0.000422	170.13197	0.522056	0.000417	0.000417
172	V	177.83022	0.115394	177.97032	0.107938	0.000173	178.11619	0.100176	0.000160	0.000160
173	E	170.55557	0.527158	170.60485	0.524395	0.000399	170.65363	0.521861	0.000395	0.000395
174	V	177.94544	0.115218	178.07010	0.107774	0.000164	178.21622	0.100024	0.000152	0.000152
175	E	171.08234	0.526776	171.12087	0.524017	0.000378	171.17492	0.521287	0.000374	0.000374
176	V	178.06049	0.115051	178.18472	0.107619	0.000155	178.31610	0.099881	0.000143	0.000143
177	E	171.60876	0.526417	171.65153	0.523662	0.000355	171.69385	0.520935	0.000352	0.000352
178	V	178.17539	0.114894	178.29119	0.107472	0.000147	178.41584	0.099746	0.000135	0.000135
179	E	172.13484	0.526079	172.17486	0.523337	0.000335	172.21645	0.520604	0.000331	0.000331
180	V	178.29013	0.114747	178.40052	0.107335	0.000137	178.51546	0.099619	0.000127	0.000127
181	E	172.66060	0.525763	172.69387	0.523014	0.000313	172.73675	0.520294	0.000310	0.000310
182	V	178.40474	0.114609	178.50773	0.107207	0.000128	178.61496	0.099500	0.000119	0.000119
183	E	173.18607	0.525468	173.22160	0.522722	0.000292	173.25675	0.520005	0.000289	0.000289
184	V	178.51922	0.114480	178.61482	0.107087	0.000120	178.71435	0.099390	0.000110	0.000110
185	E	173.71127	0.525195	173.74405	0.522452	0.000229	173.77649	0.519737	0.000226	0.000226
186	V	178.63358	0.114361	178.72179	0.106976	0.000111	178.81364	0.099288	0.000102	0.000102
187	E	174.23621	0.524943	174.26625	0.522203	0.000249	174.29598	0.519490	0.000247	0.000247
188	V	178.74784	0.114252	178.82367	0.106874	0.000102	178.91283	0.099193	0.000095	0.000095
189	E	174.76092	0.524713	174.78323	0.521974	0.000229	174.81524	0.519264	0.000226	0.000226
190	V	178.86199	0.114151	178.93345	0.106781	0.000093	179.01194	0.099107	0.000086	0.000086
191	E	175.28543	0.524503	175.30399	0.521767	0.000207	175.33430	0.519059	0.000205	0.000205
192	V	178.97605	0.114060	179.04214	0.106656	0.000085	179.11097	0.099029	0.000078	0.000078
193	E	175.80974	0.524315	175.83157	0.521581	0.000186	175.85318	0.518875	0.000184	0.000184
194	V	179.09002	0.113978	179.14377	0.106620	0.000076	179.20993	0.098958	0.000071	0.000071
195	E	176.33389	0.524148	176.35299	0.521415	0.000166	176.37189	0.518711	0.000164	0.000164
196	V	179.20393	0.113906	179.25532	0.106552	0.000068	179.30882	0.098896	0.000062	0.000062
197	E	176.85789	0.524002	176.87426	0.521270	0.000145	176.89046	0.518567	0.000144	0.000144
198	V	179.31777	0.113842	179.36181	0.106493	0.000059	179.40766	0.098841	0.000055	0.000055
199	E	177.38177	0.523876	177.39350	0.521146	0.000124	177.40890	0.518445	0.000122	0.000122
200	V	179.43156	0.113788	179.46325	0.106442	0.000051	179.50646	0.098794	0.000047	0.000047
201	E	177.90554	0.523772	177.91545	0.521043	0.000103	177.92724	0.518342	0.000103	0.000103
202	V	179.54530	0.113742	179.57465	0.106400	0.000042	179.60521	0.098755	0.000039	0.000039
203	E	178.42923	0.523689	178.43741	0.520961	0.000082	178.44551	0.518261	0.000081	0.000081
204	V	179.65901	0.113706	179.68102	0.106367	0.000033	179.70394	0.098724	0.000031	0.000031
205	E	178.95285	0.523626	178.95831	0.520899	0.000062	178.96370	0.518199	0.000062	0.000062
206	V	179.77269	0.113679	179.78341	0.106341	0.000026	179.80264	0.098701	0.000023	0.000023
207	E	179.47644	0.523585	179.47916	0.520857	0.000042	179.48186	0.518159	0.000040	0.000040
208	V	179.88635	0.113661	179.89369	0.106324	0.000017	179.90133	0.098685	0.000016	0.000016
209	E	180.00000	0.523564	180.00000	0.520837	0.000020	180.00000	0.518138	0.000021	0.000021
210	V	180.00000	0.113652	180.00000	0.106316	0.000008	180.00000	0.098678	0.000007	0.000007

ECCENTRICITY M		0.94		2ND DIF.		0.95		2ND DIF.		0.96		2ND DIF.	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
1	E	14.33230				16.03699				17.96726			
2	V	71.12396				82.67832				95.79583			
3	V	23.32415				25.02538				26.80031			
4	V	99.13485				108.37646				118.10247			
5	V	29.61498				31.18251				32.77974			
6	V	112.73129				120.30104				128.18794			
7	E	34.52451				35.97291				37.43397			
8	V	120.98511				127.49308				136.27538			
9	E	38.60350				39.95429				41.30967			
10	V	126.67415				132.45349				138.49023			
11	V	42.12596				43.39630				44.66688			
12	V	130.91351				136.15811				141.65043			
13	V	45.24760				46.40085				47.65088			
14	V	134.24150				139.07351				144.14603			
15	E	48.06547				49.21052				50.35170			
16	V	136.95260				141.45047				146.18992			
17	V	50.64437				51.73926				52.89298			
18	V	139.22295				143.45188				148.18749			
19	V	53.02978				54.08051				55.12571			
20	V	141.16516				145.16420				149.38684			
21	V	55.25493				56.26633				57.27177			
22	V	142.85502				146.65861				150.67684			
23	V	57.34491				58.32094				59.29072			
24	V	144.34572				147.97513				151.81849			
25	E	59.31913				60.26309				61.20061			
26	V	145.67579				149.2149				152.84008			
27	V	61.19297				62.178072				63.01573			
28	V	146.87400				148.44538				153.76277			
29	V	62.97881				63.86654				64.74764			
30	V	147.96228				151.18198				154.60277			
31	V	64.68681				65.54962				66.40580			
32	V	66.32537				67.16505				68.01521			
33	V	149.87386				152.88160				153.73724			
34	V	67.90156				68.71966				69.59808			
35	V	150.72157				153.63634				154.53113			
36	V	69.42140				70.21927				71.01055			
37	V	151.50973				154.33861				155.23577			
38	V	70.89002				71.66888				72.44119			
39	V	152.24566				154.99482				155.92691			
40	V	72.31186				73.82723				74.74087			
41	V	152.93545				155.61030				156.46486			
42	V	73.69080				74.43476				75.17231			
43	V	153.58422				156.18956				157.07148			
44	V	75.03021				75.75809				76.47961			
45	V	154.19634				156.73641				157.45004			
46	V	76.33308				77.04567				77.75197			
47	V	154.77551				157.25410				158.03316			
48	V	77.60206				78.30008				79.09188			
49	V	155.32494				157.74547				160.33385			
50	V	78.83952				79.52362				80.20158			
51	V	155.84740				158.21295				160.74361			
52	V	80.04755				80.71835				81.38307			
53	V	156.34532				158.65866				161.13449			
54	V	81.22807				81.88611				82.53815			
55	V	156.82080				159.08449				161.50808			
56	V	82.38278				83.02857				83.66844			
57	V	157.27573				159.49206				161.86581			
58	V	83.51323				84.14726				84.77543			
59	V	157.71174				159.88284				162.20894			

ECCENTRICITY

		0.96 1ST DIF.	2ND DIF.	0.95 1ST DIF.	2ND DIF.	0.96 1ST DIF.	2ND DIF.
31	E	84.62085	1.107618	0.022839	0.022839	85.24554	1.096283
32	V	158.13032	1.086072	0.017442	0.017442	160.25812	0.375286
33	E	85.70692	1.086072	0.021551	0.021551	86.31168	1.075139
34	V	158.53276	0.402442	0.016130	0.016130	160.61507	0.360948
35	E	86.77261	1.085695	0.020372	0.020372	87.37782	1.055146
36	V	158.92024	0.387485	0.014957	0.014957	160.96672	0.347648
37	E	87.81902	1.046406	0.019289	0.019289	88.41003	1.036210
38	V	159.29383	0.373584	0.013901	0.013901	161.30200	0.335281
39	E	88.84114	1.028112	0.018294	0.018294	89.44228	1.018247
40	V	159.65446	0.360635	0.012949	0.012949	161.62576	0.323757
41	E	89.85787	1.010737	0.017375	0.017375	90.42266	1.001181
42	V	160.00301	0.348548	0.012087	0.012087	161.93675	0.312995
43	E	90.85208	0.994210	0.016527	0.016527	91.44141	0.298495
44	V	160.34025	0.337243	0.011305	0.011305	162.22468	0.302925
45	E	91.83055	0.978470	0.015740	0.015740	92.38188	0.286978
46	V	160.66690	0.326649	0.010594	0.010594	162.53316	0.293486
47	E	92.79401	0.963461	0.015009	0.015009	93.33861	0.277284
48	V	160.98360	0.316704	0.009945	0.009945	162.81179	0.284622
49	E	93.74314	0.949131	0.014330	0.014330	94.27125	0.268429
50	V	161.29096	0.307353	0.009351	0.009351	163.09607	0.261019
51	E	94.67858	0.935436	0.013695	0.013695	95.20642	0.254017
52	V	161.58950	0.298546	0.008807	0.008807	163.36450	0.247172
53	E	95.60091	0.922331	0.013105	0.013105	96.312071	0.236450
54	V	161.87974	0.290240	0.008306	0.008306	163.62552	0.228284
55	E	96.51069	0.909781	0.012550	0.012550	97.02764	0.221019
56	V	162.16214	0.282395	0.007845	0.007845	163.87794	0.214284
57	E	97.40844	0.897749	0.012032	0.012032	97.91775	0.206101
58	V	162.43711	0.274974	0.007421	0.007421	164.12919	0.199010
59	E	98.29464	0.886203	0.011546	0.011546	98.79149	0.191942
60	V	162.70506	0.267947	0.007027	0.007027	164.36305	0.184374
61	E	99.16976	0.875116	0.011087	0.011087	99.65332	0.176829
62	V	162.96634	0.261284	0.006663	0.006663	164.60321	0.168789
63	E	100.03421	0.864459	0.010657	0.010657	100.51165	0.160321
64	V	163.22130	0.254959	0.006325	0.006325	164.83273	0.152938
65	E	100.88842	0.854207	0.010252	0.010252	101.36390	0.145622
66	V	163.47025	0.248948	0.006011	0.006011	165.05587	0.138246
67	E	101.73276	0.844339	0.009868	0.009868	102.20143	0.130932
68	V	163.71348	0.243229	0.005719	0.005719	165.27590	0.123617
69	E	102.56759	0.834833	0.009506	0.009506	103.02360	0.116118
70	V	163.95126	0.237783	0.005446	0.005446	165.49307	0.108729
71	E	103.39326	0.825669	0.009164	0.009164	103.84374	0.101462
72	V	164.18385	0.232591	0.005192	0.005192	165.69959	0.094032
73	E	104.21009	0.816829	0.008840	0.008840	104.65917	0.086708
74	V	164.41149	0.227637	0.004954	0.004954	165.90467	0.079371
75	E	105.01839	0.808297	0.008532	0.008532	105.46120	0.071130
76	V	164.63440	0.222906	0.004731	0.004731	166.10553	0.063553
77	E	105.81845	0.800056	0.008241	0.008241	106.25511	0.055908
78	V	164.85278	0.218384	0.004522	0.004522	166.30234	0.048470
79	E	106.61054	0.792093	0.007963	0.007963	107.04117	0.040463
80	V	165.06684	0.214059	0.004325	0.004325	166.49528	0.032782
81	E	107.39493	0.784394	0.007699	0.007699	107.81964	0.025159
82	V	165.27676	0.209917	0.004142	0.004142	166.68451	0.017842
83	E	108.17188	0.776945	0.007449	0.007449	108.59077	0.010434
84	V	165.48271	0.205949	0.003968	0.003968	166.87019	0.002089
85	E	108.94161	0.769736	0.007209	0.007209	109.35479	0.000430
86	V	165.68485	0.202145	0.003804	0.003804	167.05246	0.000846
87	E	109.70437	0.762755	0.006981	0.006981	110.11193	0.000406
88	V	165.88335	0.198495	0.003650	0.003650	167.23146	0.000873
89	E	110.46036	0.755992	0.006763	0.006763	110.86241	0.000889
90	V	166.07834	0.194990	0.003505	0.003505	167.40732	0.000893

ECCENTRICITY M	0.94 1ST DIF.	2ND DIF.	0.95 1ST DIF.	2ND DIF.	0.96 1ST DIF.	2ND DIF.
61	E 111.20980	0.006556	111.60641	0.744007	111.99910	0.006374
	V 166.26996	0.003367	167.58017	0.172866	168.99195	0.002648
62	E 111.95288	0.006356	112.34415	0.737739	117.73154	0.006182
	V 166.45835	0.003236	167.75011	0.169946	169.14216	0.002546
63	E 112.68979	0.006166	113.07581	0.731657	113.45799	0.005998
	V 166.64362	0.003114	167.91727	0.167155	169.28993	0.002451
64	E 113.20272	0.005983	113.80156	0.725754	114.17862	0.005822
	V 166.82590	0.002996	168.08114	0.164469	169.43533	0.002359
65	E 114.14584	0.005809	114.52159	0.720024	114.89359	0.005653
	V 167.00529	0.002886	168.24362	0.161882	169.57846	0.002272
66	E 114.86532	0.005642	115.23634	0.714458	115.60308	0.005491
	V 167.18190	0.002781	168.40301	0.159389	169.71941	0.002190
67	E 115.57932	0.005481	115.94509	0.709050	116.30722	0.005335
	V 167.35583	0.002680	168.55959	0.156985	169.85824	0.002112
68	E 116.28800	0.005326	116.64889	0.703794	117.00618	0.005186
	V 167.52717	0.002585	168.71466	0.154866	169.99503	0.002037
69	E 116.99149	0.005178	117.34757	0.698684	117.70010	0.005043
	V 167.69602	0.002495	168.86709	0.152428	170.12986	0.001967
70	E 117.68995	0.005035	118.04129	0.693714	118.38912	0.004904
	V 167.86246	0.002409	169.01756	0.150268	170.26279	0.001899
71	E 118.38351	0.004898	118.73017	0.688880	119.07336	0.004772
	V 168.02658	0.002326	169.16554	0.148180	170.39388	0.001835
72	E 119.07231	0.004766	119.41434	0.684175	119.75296	0.004643
	V 168.18845	0.002248	169.31170	0.146163	170.52320	0.001773
73	E 119.75646	0.004639	120.09394	0.679596	120.42803	0.004521
	V 168.34814	0.002173	169.44551	0.144213	170.65080	0.001715
74	E 120.43611	0.004516	120.76908	0.675137	121.09871	0.004401
	V 168.50573	0.002101	169.59824	0.142327	170.77675	0.001658
75	E 121.11135	0.004397	121.43987	0.670795	121.76510	0.004287
	V 168.66129	0.002033	169.73874	0.140502	170.90109	0.001605
76	E 121.78231	0.004284	122.10644	0.666566	122.42731	0.004176
	V 168.81489	0.001967	169.87748	0.138736	171.02388	0.001554
77	E 122.44910	0.004173	122.76888	0.662445	123.08546	0.004069
	V 168.96658	0.001905	170.01421	0.137026	171.14516	0.001504
78	E 123.11182	0.004067	123.42731	0.658429	123.73964	0.003966
	V 169.11642	0.001845	170.14988	0.135370	171.26499	0.001458
79	E 123.77057	0.003964	124.08182	0.654514	124.38995	0.003866
	V 169.26447	0.001787	170.28364	0.133765	171.38340	0.001412
80	E 124.42546	0.003865	124.73252	0.650697	125.03649	0.003770
	V 169.41080	0.001732	170.41595	0.132209	171.50045	0.001369
81	E 125.07659	0.003768	125.37950	0.646975	125.67936	0.003676
	V 169.55544	0.001679	170.54655	0.130701	171.61617	0.001327
82	E 125.72404	0.003675	126.02284	0.643345	126.31864	0.003586
	V 169.69846	0.001628	170.67579	0.129238	171.73060	0.001287
83	E 126.36790	0.003585	126.66264	0.639803	126.95442	0.003498
	V 169.83990	0.001579	170.80361	0.127819	171.84378	0.001249
84	E 127.00826	0.003497	127.29899	0.636348	127.58679	0.003414
	V 169.97980	0.001533	170.93005	0.126442	171.95575	0.001212
85	E 127.64522	0.003413	127.93197	0.632976	128.21583	0.003331
	V 170.11822	0.001487	171.05516	0.125106	172.06654	0.001177
86	E 128.27884	0.003362	128.56165	0.629685	128.48162	0.003251
	V 170.25520	0.001444	171.17896	0.123808	172.17620	0.001142
87	E 128.90921	0.003251	129.18813	0.626473	129.46423	0.003174
	V 170.39077	0.001402	171.30151	0.122549	172.28474	0.001110
88	E 129.53641	0.003174	129.81146	0.623337	130.08375	0.003099
	V 170.52498	0.001362	171.42284	0.121325	172.39220	0.001077
89	E 130.16051	0.003098	130.43174	0.620275	130.70024	0.003025
	V 170.65787	0.001323	171.54297	0.120136	172.49862	0.001047
90	E 130.78158	0.003026	131.04902	0.617285	131.31377	0.002955
	V 170.78947	0.001285	171.66615	0.118980	172.60402	0.001018

ECCENTRICITY M	0.94				0.95				0.96			
	1ST	DIF.	2ND	DIF.	1ST	DIF.	2ND	DIF.	1ST	DIF.	2ND	DIF.
121	E	148.85538	0.554894	0.001479	149.01876	0.551845	0.001464	149.18048	0.548828	0.001447	0.001447	0.001447
		174.38833	0.105050	0.000561	174.91785	0.095091	0.000504	175.49022	0.084339	0.000446	0.000446	0.000446
122	E	149.40883	0.553450	0.001444	149.56917	0.550417	0.001428	149.72789	0.547414	0.001414	0.001414	0.001414
		174.49283	0.104504	0.000546	175.01245	0.094599	0.000492	175.57413	0.083905	0.000434	0.000434	0.000434
123	E	149.96087	0.552040	0.001410	150.11820	0.549022	0.001395	150.27393	0.546034	0.001380	0.001380	0.001380
		174.59681	0.103972	0.000532	175.10657	0.094120	0.000479	175.65761	0.083483	0.000422	0.000422	0.000422
124	E	150.51153	0.550663	0.001377	150.66586	0.547660	0.001362	150.81861	0.544686	0.001348	0.001348	0.001348
		174.70026	0.103454	0.000518	175.20022	0.093653	0.000467	175.74068	0.083071	0.000412	0.000412	0.000412
125	E	151.06085	0.549320	0.001343	151.21218	0.546330	0.001330	151.36298	0.543371	0.001315	0.001315	0.001315
		174.80321	0.102950	0.000504	175.29342	0.093199	0.000454	175.82335	0.082671	0.000400	0.000400	0.000400
126	E	151.60886	0.548009	0.001311	151.75722	0.545033	0.001297	151.90407	0.542087	0.001284	0.001284	0.001284
		174.90567	0.102459	0.000491	175.38618	0.092757	0.000442	175.90563	0.082280	0.000391	0.000391	0.000391
127	E	152.15559	0.546729	0.001280	152.30099	0.543767	0.001266	152.44490	0.540834	0.001253	0.001253	0.001253
		175.00765	0.101981	0.000478	175.47851	0.092327	0.000430	175.98753	0.081901	0.000379	0.000379	0.000379
128	E	152.70107	0.545481	0.001248	152.84352	0.542532	0.001235	152.98452	0.539612	0.001222	0.001222	0.001222
		175.10917	0.101516	0.000465	175.57041	0.091908	0.000419	176.06906	0.081531	0.000370	0.000370	0.000370
129	E	153.24533	0.544264	0.001217	153.38484	0.541327	0.001205	153.52294	0.538420	0.001192	0.001192	0.001192
		175.21023	0.101064	0.000452	175.66191	0.091500	0.000408	176.15023	0.081171	0.000360	0.000360	0.000360
130	E	153.78841	0.543077	0.001187	153.92500	0.540153	0.001174	154.06019	0.537258	0.001162	0.001162	0.001162
		175.31086	0.100524	0.000440	175.75302	0.091104	0.000396	176.23105	0.080821	0.000350	0.000350	0.000350
131	E	154.33033	0.541920	0.001157	154.46401	0.539008	0.001145	154.59632	0.536125	0.001133	0.001133	0.001133
		175.41105	0.100195	0.000429	175.84374	0.090718	0.000386	176.31153	0.080480	0.000341	0.000341	0.000341
132	E	154.87112	0.540793	0.001127	155.00190	0.537892	0.001116	155.13134	0.535021	0.001104	0.001104	0.001104
		175.51083	0.099779	0.000416	175.93408	0.090343	0.000375	176.39168	0.080149	0.000331	0.000331	0.000331
133	E	155.41082	0.539694	0.001099	155.53870	0.536805	0.001087	155.66529	0.533945	0.001076	0.001076	0.001076
		175.61020	0.099374	0.000405	176.02406	0.089978	0.000365	176.47151	0.079827	0.000322	0.000322	0.000322
134	E	155.94944	0.538624	0.001070	156.07445	0.535746	0.001059	156.19818	0.532897	0.001048	0.001048	0.001048
		175.70918	0.098980	0.000394	176.11368	0.089623	0.000355	176.55103	0.079514	0.000313	0.000313	0.000313
135	E	156.48703	0.537582	0.001042	156.60916	0.534715	0.001031	156.73006	0.531877	0.001020	0.001020	0.001020
		175.80778	0.098598	0.000382	176.20296	0.089279	0.000344	176.63024	0.079210	0.000304	0.000304	0.000304
136	E	157.02359	0.536568	0.001014	157.14288	0.533712	0.001003	157.26094	0.530884	0.000993	0.000993	0.000993
		175.90650	0.098226	0.000372	176.29190	0.088944	0.000335	176.70915	0.078914	0.000296	0.000296	0.000296
137	E	157.55918	0.535582	0.000986	157.67561	0.532735	0.000977	157.79086	0.529917	0.000967	0.000967	0.000967
		176.03037	0.097865	0.000361	176.38052	0.088619	0.000325	176.78778	0.078627	0.000287	0.000287	0.000287
138	E	158.09380	0.534622	0.000960	158.20740	0.531785	0.000950	158.31984	0.528977	0.000940	0.000940	0.000940
		176.10139	0.097515	0.000350	176.48882	0.088303	0.000316	176.86613	0.078349	0.000278	0.000278	0.000278
139	E	158.62749	0.533689	0.000934	158.73826	0.530862	0.000923	158.84790	0.528063	0.000914	0.000914	0.000914
		176.19856	0.097175	0.000340	176.55682	0.087997	0.000306	176.94420	0.078078	0.000271	0.000271	0.000271
140	E	159.16027	0.532783	0.000906	159.26822	0.529965	0.000897	159.37508	0.527175	0.000888	0.000888	0.000888
		176.29541	0.096845	0.000330	176.64452	0.087699	0.000298	177.02202	0.077816	0.000262	0.000262	0.000262
141	E	159.69217	0.531902	0.000881	159.79732	0.529093	0.000872	159.90139	0.526313	0.000862	0.000862	0.000862
		176.39193	0.096525	0.000320	176.73193	0.087411	0.000288	177.09958	0.077561	0.000255	0.000255	0.000255
142	E	160.22322	0.531048	0.000854	160.32556	0.528247	0.000846	160.42686	0.525475	0.000838	0.000838	0.000838
		176.48815	0.096215	0.000310	176.81906	0.087132	0.000279	177.17690	0.077315	0.000246	0.000246	0.000246
143	E	160.75344	0.530218	0.000830	160.85299	0.527426	0.000821	160.95153	0.524663	0.000812	0.000812	0.000812
		176.58406	0.095915	0.000300	176.90592	0.086861	0.000271	177.25397	0.077076	0.000239	0.000239	0.000239
144	E	161.28285	0.529414	0.000804	161.37962	0.526630	0.000796	161.47540	0.523875	0.000788	0.000788	0.000788
		176.67969	0.095624	0.000291	176.93252	0.086599	0.000262	177.33082	0.076845	0.000231	0.000231	0.000231
145	E	161.81149	0.528634	0.000780	161.90548	0.525859	0.000771	161.99851	0.523111	0.000764	0.000764	0.000764
		176.77503	0.095343	0.000281	177.07887	0.086346	0.000253	177.40744	0.076621	0.000224	0.000224	0.000224
146	E	162.33937	0.527880	0.000752	162.43059	0.525111	0.000748	162.52089	0.522372	0.000739	0.000739	0.000739
		176.87010	0.095071	0.000274	177.16497	0.086100	0.000246	177.48384	0.076404	0.000217	0.000217	0.000217
147	E	162.86652	0.527149	0.000731	162.95498	0.524388	0.000723	163.04254	0.521656	0.000716	0.000716	0.000716
		176.96491	0.094808	0.000263	177.25083	0.085863	0.000237	177.56004	0.076195	0.000209	0.000209	0.000209
148	E	163.39296	0.526442	0.000707	163.47867	0.523689	0.000699	163.56350	0.520963	0.000693	0.000693	0.000693
		177.05946	0.094554	0.000254	177.33647	0.085635	0.000228	177.63603	0.075993	0.000202	0.000202	0.000202
149	E	163.91872	0.525760	0.000682	164.00168	0.523013	0.000674	164.08380	0.520294	0.000669	0.000669	0.000669
		177.15377	0.094309	0.000245	177.42188	0.085414	0.000221	177.71183	0.075798	0.000195	0.000195	0.000195
150	E	164.44382	0.525100	0.000660	164.52708	0.522360	0.000653	164.60345	0.519648	0.000646	0.000646	0.000646
		177.24784	0.094072	0.000237	177.50708	0.085201	0.000213	177.78744	0.075610	0.000188	0.000188	0.000188

ECCENTRICITY M		0.97			2ND DIF.			0.98			2ND DIF.			0.99			2ND DIF.		
		1ST	DIF.		1ST	DIF.		1ST	DIF.		1ST	DIF.		1ST	DIF.		1ST	DIF.	
1	E	20.09486			22.36856			22.36856			24.72582			24.72582			24.72582		
2	V	110.28681			126.11035			126.11035			144.15595			144.15595			144.15595		
3	E	28.62837			30.48849			30.48849			32.36101			32.36101			32.36101		
4	V	128.38031			139.51311			139.51311			152.54213			152.54213			152.54213		
5	E	34.33958			36.01960			36.01960			37.64241			37.64241			37.64241		
6	V	136.52499			145.64317			145.64317			156.50222			156.50222			156.50222		
7	E	38.90099			40.36783			40.36783			41.82823			41.82823			41.82823		
8	V	141.47709			149.41822			149.41822			158.98253			158.98253			158.98253		
9	E	42.66521			44.01685			44.01685			45.36102			45.36102			45.36102		
10	V	144.92878			152.07312			152.07312			160.45562			160.45562			160.45562		
11	E	45.93456			47.19650			47.19650			48.45019			48.45019			48.45019		
12	V	147.53071			154.08759			154.08759			162.03429			162.03429			162.03429		
13	E	48.84675			50.03589			50.03589			51.21645			51.21645			51.21645		
14	V	149.59436			155.69337			155.69337			163.17384			163.17384			163.17384		
15	E	51.48723			52.61549			52.61549			53.73507			53.73507			53.73507		
16	V	151.29048			157.01844			157.01844			164.06926			164.06926			164.06926		
17	E	53.91302			54.98921			54.98921			56.05674			56.05674			56.05674		
18	V	152.72178			158.14026			158.14026			164.83000			164.83000			164.83000		
19	E	56.16424			57.19510			57.19510			58.21737			58.21737			58.21737		
20	V	153.95434			159.10896			159.10896			165.48880			165.48880			165.48880		
21	E	58.27031			59.26113			59.26113			60.24349			60.24349			60.24349		
22	V	155.03300			159.95865			159.95865			166.06808			166.06808			166.06808		
23	E	60.25348			61.20853			61.20853			62.15525			62.15525			62.15525		
24	V	155.98938			160.71351			160.71351			166.58379			166.58379			166.58379		
25	E	62.13104			63.05382			63.05382			63.96842			63.96842			63.96842		
26	V	156.84658			161.39127			161.39127			167.04766			167.04766			167.04766		
27	E	63.91673			64.81015			64.81015			65.89555			65.89555			65.89555		
28	V	157.62192			162.00524			162.00524			167.46854			167.46854			167.46854		
29	E	65.62165			66.48818			66.48818			67.34684			67.34684			67.34684		
30	V	158.32868			162.56566			162.56566			167.85326			167.85326			167.85326		
31	E	67.25492			68.09666			68.09666			68.93069			68.93069			68.93069		
32	V	158.97727			163.08058			163.08058			168.20718			168.20718			168.20718		
33	E	68.82413			69.64289			69.64289			70.45410			70.45410			70.45410		
34	V	159.57597			163.55641			163.55641			168.53461			168.53461			168.53461		
35	E	70.33568			71.13305			71.13305			71.92301			71.92301			71.92301		
36	V	160.13147			163.99834			163.99834			168.83902			168.83902			168.83902		
37	E	71.79499			72.57236			72.57236			73.34246			73.34246			73.34246		
38	V	160.64924			164.41063			164.41063			169.12327			169.12327			169.12327		
39	E	73.20675			73.96534			73.96534			74.71681			74.71681			74.71681		
40	V	161.13380			164.79679			164.79679			169.38975			169.38975			169.38975		
41	E	74.57499			75.31591			75.31591			76.04982			76.04982			76.04982		
42	V	161.58895			165.15980			165.15980			169.64004			169.64004			169.64004		
43	E	75.90326			76.62746			76.62746			77.34481			77.34481			77.34481		
44	V	162.01789			165.50213			165.50213			169.87702			169.87702			169.87702		
45	E	77.19463			77.90302			77.90302			78.60466			78.60466			78.60466		
46	V	162.42333			165.82593			165.82593			170.10093			170.10093			170.10093		
47	E	78.45185			79.14521			79.14521			79.83194			79.83194			79.83194		
48	V	162.80760			166.13301			166.13301			170.31343			170.31343			170.31343		
49	E	79.67735			80.35640			80.35640			81.02895			81.02895			81.02895		
50	V	163.17273			166.42495			166.42495			170.51356			170.51356			170.51356		
51	E	80.87330			81.53870			81.53870			82.19771			82.19771			82.19771		
52	V	163.52046			166.70312			166.70312			170.70827			170.70827			170.70827		
53	E	82.04164			82.69399			82.69399			83.34005			83.34005			83.34005		
54	V	163.85231			166.96874			166.96874			170.89236			170.89236			170.89236		
55	E	83.18413			83.82397			83.82397			84.45765			84.45765			84.45765		
56	V	164.16964			167.22284			167.22284			171.06856			171.06856			171.06856		
57	E	84.30233			84.93019			84.93019			85.55198			85.55198			85.55198		
58	V	164.47363			167.46637			167.46637			171.23751			171.23751			171.23751		
59	E	85.39771			86.01404			86.01404			86.62441			86.62441			86.62441		
60	V	164.76533			167.70014			167.70014			171.39975			171.39975			171.39975		

ECCENTRICITY M		0-97		2ND DIF.		0-98		2ND DIF.		0-99	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
61	E	112.38789	0.733300	0.006284	112.77281	0.728022	0.006195	113.15391	0.722795	0.006107	0.006107
	V	170.55272	0.130725	0.002250	172.33562	0.105472	0.001803	174.64297	0.073699	0.001250	0.001250
62	E	113.11509	0.727204	0.006096	113.49482	0.722011	0.006011	113.87078	0.716869	0.005926	0.005926
	V	170.68129	0.128561	0.002164	172.45936	0.103738	0.001734	174.71546	0.074295	0.001204	0.001204
63	E	113.83638	0.721289	0.005915	114.21100	0.716179	0.005832	114.58190	0.711118	0.005751	0.005751
	V	170.80776	0.126478	0.002083	172.56143	0.102069	0.001569	174.78680	0.071337	0.001158	0.001158
64	E	114.55193	0.715547	0.005742	114.92152	0.710516	0.005663	115.28743	0.705534	0.005584	0.005584
	V	170.93224	0.124472	0.002006	172.66189	0.100461	0.001608	174.85702	0.070221	0.001116	0.001116
65	E	115.26190	0.709971	0.005576	115.62653	0.705017	0.005499	115.98754	0.700110	0.005424	0.005424
	V	171.05478	0.122540	0.001932	172.76080	0.098912	0.001549	174.92617	0.069145	0.001076	0.001076
66	E	115.96645	0.704554	0.005417	116.32621	0.699674	0.005343	116.68238	0.694840	0.005270	0.005270
	V	171.17545	0.120677	0.001863	172.85822	0.097418	0.001494	174.99427	0.068108	0.001037	0.001037
67	E	116.66574	0.699291	0.005263	117.02069	0.694481	0.005193	117.37210	0.689718	0.005122	0.005122
	V	171.29433	0.118881	0.001796	172.95420	0.095978	0.001440	175.06138	0.067108	0.001000	0.001000
68	E	117.35991	0.694174	0.005117	117.71012	0.689433	0.005048	118.05684	0.684738	0.004980	0.004980
	V	171.41148	0.117147	0.001734	173.04879	0.094587	0.001391	175.12752	0.066142	0.000966	0.000966
69	E	118.04911	0.689198	0.004976	118.39464	0.684523	0.004910	118.73673	0.679895	0.004843	0.004843
	V	171.52695	0.115474	0.001673	173.14203	0.093245	0.001342	175.19273	0.065210	0.000932	0.000932
70	E	118.73347	0.684358	0.004840	119.07439	0.679748	0.004775	119.41191	0.675182	0.004713	0.004713
	V	171.64081	0.113858	0.001616	173.23398	0.091949	0.001296	175.25704	0.064309	0.000901	0.000901
71	E	119.41312	0.679649	0.004702	119.74949	0.675101	0.004647	120.08251	0.670596	0.004586	0.004586
	V	171.75311	0.112296	0.001562	173.32467	0.090696	0.001253	175.32048	0.063438	0.000871	0.000871
72	E	120.08819	0.675066	0.004583	120.42007	0.670577	0.004524	120.74864	0.666133	0.004463	0.004463
	V	171.86389	0.110787	0.001509	173.41416	0.089484	0.001212	175.38308	0.062596	0.000842	0.000842
73	E	120.75879	0.670604	0.004462	121.08624	0.666173	0.004404	121.41043	0.661786	0.004347	0.004347
	V	171.97322	0.109327	0.001460	173.50247	0.088313	0.001171	175.44486	0.061782	0.000814	0.000814
74	E	121.42505	0.666259	0.004345	121.74813	0.661885	0.004288	122.06798	0.657553	0.004233	0.004233
	V	172.08114	0.107915	0.001412	173.58965	0.087179	0.001134	175.50585	0.060994	0.000788	0.000788
75	E	122.08708	0.662027	0.004232	122.40584	0.657707	0.004178	122.72141	0.653429	0.004124	0.004124
	V	172.18769	0.106548	0.001367	173.67573	0.086082	0.001097	175.56608	0.060232	0.000762	0.000762
76	E	122.74498	0.657904	0.004123	123.05947	0.653636	0.004071	123.37082	0.649411	0.004018	0.004018
	V	172.29291	0.105225	0.001323	173.76075	0.085020	0.001062	175.62558	0.059493	0.000739	0.000739
77	E	123.39887	0.653886	0.004018	123.70914	0.649670	0.003966	124.01632	0.645494	0.003917	0.003917
	V	172.39685	0.103944	0.001281	173.84474	0.083991	0.001029	175.68435	0.058778	0.000715	0.000715
78	E	124.04884	0.649970	0.003916	124.35494	0.645803	0.003867	124.65799	0.641676	0.003818	0.003818
	V	172.49956	0.102703	0.001241	173.92774	0.082994	0.000997	175.74244	0.058084	0.000694	0.000694
79	E	124.69499	0.646152	0.003818	124.99698	0.642033	0.003770	125.29595	0.637954	0.003722	0.003722
	V	172.60106	0.101500	0.001203	174.00977	0.082028	0.000966	175.79985	0.057412	0.000672	0.000672
80	E	125.33742	0.642430	0.003722	125.63523	0.638356	0.003677	125.93027	0.634323	0.003631	0.003631
	V	172.70139	0.100333	0.001167	174.09086	0.081091	0.000937	175.85661	0.056761	0.000651	0.000651
81	E	125.97622	0.638799	0.003631	126.27010	0.634771	0.003585	126.56105	0.630782	0.003541	0.003541
	V	172.80059	0.099203	0.001130	174.17104	0.080183	0.000908	175.91274	0.056129	0.000632	0.000632
82	E	126.61147	0.635257	0.003542	126.90138	0.631273	0.003498	127.18838	0.627328	0.003454	0.003454
	V	172.89870	0.098106	0.001097	174.25034	0.079302	0.000881	175.96826	0.055516	0.000613	0.000613
83	E	127.24328	0.631802	0.003455	127.52924	0.627860	0.003413	127.81234	0.623957	0.003371	0.003371
	V	172.99574	0.097041	0.001065	174.32879	0.078447	0.000855	176.02348	0.054921	0.000595	0.000595
84	E	127.87171	0.628430	0.003372	128.15376	0.624529	0.003331	128.43300	0.620667	0.003290	0.003290
	V	173.09175	0.096008	0.001033	174.40641	0.077616	0.000831	176.07752	0.054343	0.000578	0.000578
85	E	128.49685	0.625139	0.003291	128.77504	0.621278	0.003251	129.05046	0.617456	0.003211	0.003211
	V	173.18675	0.095005	0.001003	174.48332	0.076811	0.000805	176.13130	0.053782	0.000561	0.000561
86	E	129.11877	0.621927	0.003212	129.39315	0.618105	0.003173	129.66478	0.614321	0.003135	0.003135
	V	173.28078	0.094032	0.000973	174.55924	0.076028	0.000783	176.18454	0.053238	0.000544	0.000544
87	E	129.73756	0.618791	0.003136	130.00815	0.615007	0.003098	130.27604	0.611260	0.003061	0.003061
	V	173.37387	0.093086	0.000946	174.63451	0.075268	0.000760	176.23725	0.052708	0.000530	0.000530
88	E	130.35329	0.615729	0.003062	130.62014	0.611982	0.003025	130.88431	0.608271	0.002989	0.002989
	V	173.46604	0.092167	0.000919	174.70904	0.074529	0.000739	176.28944	0.052194	0.000514	0.000514
89	E	130.96603	0.612740	0.002989	131.22916	0.609028	0.002954	131.48966	0.605352	0.002919	0.002919
	V	173.55731	0.091274	0.000893	174.78285	0.073811	0.000718	176.34114	0.051694	0.000500	0.000500
90	E	131.57585	0.609820	0.002920	131.83531	0.606142	0.002883	132.09211	0.602851	0.002851	0.002851
	V	173.64772	0.090406	0.000868	174.85597	0.073114	0.000697	176.39235	0.051209	0.000485	0.000485

ECCENTRICITY M		0.97 1ST DIF.	2ND DIF.	0.98 1ST DIF.	2ND DIF.	0.99 1ST DIF.	2ND DIF.
91	E	132.18282	0.006968	132.43863	0.603324	0.599717	0.002784
	V	173.73728	0.0089562	174.92840	0.072435	0.599717	0.002784
92	E	132.78700	0.008444	174.92840	0.072435	0.599717	0.002784
	V	173.82602	0.008742	175.00018	0.071776	0.599717	0.002784
93	E	133.38846	0.001460	175.00018	0.071776	0.599717	0.002784
	V	173.91397	0.0087944	175.07131	0.071134	0.599717	0.002784
94	E	133.98726	0.0598801	175.07131	0.071134	0.599717	0.002784
	V	174.00113	0.0087168	175.1182	0.070510	0.599717	0.002784
95	E	134.58347	0.0596203	175.1182	0.070510	0.599717	0.002784
	V	174.08755	0.0086414	175.21173	0.069903	0.599717	0.002784
96	E	135.17713	0.0593663	175.21173	0.069903	0.599717	0.002784
	V	174.17323	0.0085679	175.23104	0.069312	0.599717	0.002784
97	E	135.76831	0.0591182	175.23104	0.069312	0.599717	0.002784
	V	174.25819	0.0084964	175.31977	0.068737	0.599717	0.002784
98	E	136.35707	0.0588757	175.31977	0.068737	0.599717	0.002784
	V	174.34246	0.0084269	175.41795	0.068178	0.599717	0.002784
99	E	136.94345	0.0586387	175.41795	0.068178	0.599717	0.002784
	V	174.42605	0.0083592	175.51269	0.067633	0.599717	0.002784
100	E	137.52752	0.0584070	175.51269	0.067633	0.599717	0.002784
	V	174.50898	0.0082932	175.61927	0.067103	0.599717	0.002784
101	E	138.10933	0.0581806	175.61927	0.067103	0.599717	0.002784
	V	174.59127	0.0082291	175.71991	0.066586	0.599717	0.002784
102	E	138.68892	0.0579592	175.71991	0.066586	0.599717	0.002784
	V	174.67294	0.0081666	175.83072	0.066083	0.599717	0.002784
103	E	139.26635	0.0577428	175.83072	0.066083	0.599717	0.002784
	V	174.75400	0.0081057	175.94492	0.065593	0.599717	0.002784
104	E	139.84167	0.0575313	175.94492	0.065593	0.599717	0.002784
	V	174.83446	0.0080464	176.03073	0.065116	0.599717	0.002784
105	E	140.41491	0.0573245	176.03073	0.065116	0.599717	0.002784
	V	174.91435	0.0079887	176.13491	0.064652	0.599717	0.002784
106	E	140.98613	0.0571224	176.13491	0.064652	0.599717	0.002784
	V	174.999367	0.0079324	176.23952	0.064199	0.599717	0.002784
107	E	141.55538	0.0569248	176.23952	0.064199	0.599717	0.002784
	V	175.07245	0.0078776	176.34319	0.063758	0.599717	0.002784
108	E	142.12270	0.0567316	176.34319	0.063758	0.599717	0.002784
	V	175.15069	0.0078243	176.43362	0.063328	0.599717	0.002784
109	E	142.68812	0.0565427	176.43362	0.063328	0.599717	0.002784
	V	175.22841	0.0077723	176.53416	0.062910	0.599717	0.002784
110	E	143.25171	0.0563581	176.53416	0.062910	0.599717	0.002784
	V	175.30563	0.0077216	176.63948	0.062502	0.599717	0.002784
111	E	143.81348	0.0561777	176.63948	0.062502	0.599717	0.002784
	V	175.38235	0.0076722	176.74298	0.062104	0.599717	0.002784
112	E	144.37350	0.0560013	176.74298	0.062104	0.599717	0.002784
	V	175.45860	0.0076241	176.84755	0.061717	0.599717	0.002784
113	E	144.93178	0.0558289	176.84755	0.061717	0.599717	0.002784
	V	175.53637	0.0075773	176.95197	0.061340	0.599717	0.002784
114	E	145.48839	0.0556604	176.95197	0.061340	0.599717	0.002784
	V	175.60968	0.0075316	177.05492	0.060972	0.599717	0.002784
115	E	146.04335	0.0554957	177.05492	0.060972	0.599717	0.002784
	V	175.68455	0.0074871	177.15804	0.060614	0.599717	0.002784
116	E	146.59669	0.0553348	177.15804	0.060614	0.599717	0.002784
	V	175.75899	0.0074437	177.26217	0.060265	0.599717	0.002784
117	E	147.14847	0.0551776	177.26217	0.060265	0.599717	0.002784
	V	175.83301	0.0074015	177.36748	0.059924	0.599717	0.002784
118	E	147.69871	0.0550239	177.36748	0.059924	0.599717	0.002784
	V	175.90661	0.0073603	177.47154	0.059593	0.599717	0.002784
119	E	148.24745	0.0548738	177.47154	0.059593	0.599717	0.002784
	V	175.97981	0.0073202	177.57472	0.059270	0.599717	0.002784
120	E	148.79472	0.0547272	177.57472	0.059270	0.599717	0.002784
	V	176.05262	0.0072812	177.67938	0.058955	0.599717	0.002784

ECCENTRICITY M		0.97		0.98		0.99	
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.
121	E	149.34056	0.001432	149.49903	0.001416	149.65591	0.001401
122	V	176.12506	0.000381	176.86088	0.000306	177.79751	0.000214
123	E	149.88500	0.001398	150.04053	0.001384	150.19450	0.001369
124	V	176.19711	0.000371	176.91917	0.000299	177.83843	0.000208
125	E	150.42808	0.001366	150.58068	0.001351	150.73174	0.001337
126	V	176.26881	0.000361	176.97723	0.000291	177.87915	0.000203
127	E	150.96982	0.001333	151.11950	0.001320	151.26769	0.001305
128	V	176.34016	0.000351	177.03501	0.000283	177.91967	0.000197
129	E	151.51026	0.001302	151.65705	0.001287	151.80236	0.000197
130	V	176.41117	0.000343	177.09251	0.000276	177.95999	0.000193
131	E	152.04943	0.001270	152.19333	0.001257	152.33578	0.001243
132	V	176.48184	0.000333	177.14974	0.000268	178.00013	0.000187
133	E	152.58736	0.001240	152.72839	0.001227	152.86800	0.001214
134	V	176.55219	0.000325	177.20671	0.000262	178.04009	0.000183
135	E	153.12408	0.001209	153.26225	0.001196	153.39902	0.001184
136	V	176.62222	0.000316	177.26342	0.000254	178.07987	0.000177
137	E	153.65963	0.001179	153.79494	0.001167	153.92890	0.001154
138	V	176.69194	0.000307	177.31989	0.000248	178.11948	0.000173
139	E	154.19402	0.001150	154.32650	0.001138	154.45765	0.001126
140	V	176.76137	0.000299	177.37612	0.000241	178.15892	0.001168
141	E	154.72729	0.001122	154.85895	0.001110	154.98529	0.001098
142	V	176.83050	0.000291	177.43211	0.000234	178.19819	0.001074
143	E	155.25947	0.001092	155.38631	0.001081	155.51188	0.001050
144	V	176.89935	0.000283	177.48788	0.000228	178.23731	0.001059
145	E	155.79058	0.001065	155.91462	0.001054	156.03741	0.001043
146	V	176.96793	0.000275	177.54342	0.000222	178.27627	0.001055
147	E	156.32066	0.001037	156.44191	0.001026	156.56193	0.001016
148	V	177.03624	0.000268	177.59875	0.000216	178.31508	0.001011
149	E	156.84973	0.001010	156.96819	0.000999	157.08546	0.000989
150	V	177.10428	0.000260	177.65366	0.000209	178.35374	0.000946
151	E	157.37781	0.000983	157.49351	0.000973	157.60803	0.000962
152	V	177.47208	0.000253	177.70878	0.000204	178.39227	0.000937
153	E	157.90494	0.000956	158.01787	0.000947	158.12967	0.000937
154	V	177.23963	0.000245	177.76349	0.000198	178.43065	0.000938
155	E	158.43114	0.000930	158.54132	0.000920	158.65039	0.000911
156	V	177.30694	0.000238	177.81802	0.000192	178.46890	0.000911
157	E	158.95643	0.000905	159.06387	0.000895	159.17023	0.000886
158	V	177.37402	0.000231	177.87236	0.000186	178.50702	0.000861
159	E	159.48085	0.000879	159.58555	0.000870	159.68920	0.000861
160	V	177.44088	0.000225	177.92651	0.000181	178.54502	0.0008127
161	E	160.00441	0.000854	160.10638	0.000845	160.20734	0.000837
162	V	177.50752	0.000217	177.98050	0.000175	178.58289	0.0008122
163	E	160.52714	0.000828	160.62640	0.000821	160.72466	0.0008122
164	V	177.57394	0.000211	178.03431	0.000170	178.62064	0.0008119
165	E	161.04906	0.000805	161.14562	0.000796	161.24120	0.000788
166	V	177.64017	0.000204	178.08796	0.000165	178.65828	0.000764
167	E	161.57021	0.000780	161.66407	0.000772	161.75698	0.000764
168	V	177.70619	0.000198	178.14144	0.000159	178.69581	0.0007527
169	E	162.09060	0.000756	162.18176	0.000748	162.27201	0.000740
170	V	177.77203	0.000191	178.19478	0.000154	178.73323	0.000740
171	E	162.61026	0.000732	162.69874	0.000725	162.78633	0.000717
172	V	177.83768	0.000186	178.24796	0.000149	178.77054	0.000715
173	E	163.12921	0.000718	163.21501	0.000701	163.29995	0.000695
174	V	177.90315	0.000178	178.30100	0.000145	178.80776	0.000695
175	E	163.64748	0.000686	163.73061	0.000678	163.81290	0.000671
176	V	177.96845	0.000173	178.35390	0.000139	178.84488	0.000649
177	E	164.16508	0.000662	164.24555	0.000656	164.32520	0.000649
178	V	178.03358	0.000167	178.40667	0.000134	178.88190	0.000627
179	E	164.68205	0.000639	164.75985	0.000633	164.83688	0.000627
180	V	178.09855	0.000161	178.45931	0.000130	178.91883	0.000627

FCENTRICITY M		Q ⁹⁷			Q ⁹⁸			Q ⁹⁹		
		1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	1ST DIF.	2ND DIF.	2ND DIF.
151	E	165.19839	0.516347	0.000617	165.21355	0.513696	0.000610	165.34795	0.511071	0.000604
152	V	178.16336	0.064815	0.000155	178.51182	0.052512	0.000125	178.95568	0.036846	0.000087
153	E	165.71415	0.515753	0.000594	165.76666	0.513107	0.000589	165.85844	0.510489	0.000084
154	V	178.22803	0.064666	0.000149	178.54241	0.052392	0.000120	178.99244	0.036762	0.000082
155	E	166.22933	0.515180	0.000573	166.24920	0.512541	0.000566	166.36836	0.509928	0.000081
156	V	178.29255	0.064523	0.000143	178.61649	0.052276	0.000116	179.02912	0.036681	0.000081
157	E	166.74396	0.514630	0.000550	166.8119	0.511996	0.000545	166.87775	0.509389	0.000539
158	V	178.35694	0.064385	0.000138	178.64865	0.052165	0.000111	179.06572	0.036604	0.000077
159	E	167.25806	0.514102	0.000528	167.34267	0.511473	0.000523	167.38663	0.508871	0.000518
160	V	178.42119	0.064253	0.000132	178.74071	0.052059	0.000106	179.10225	0.036529	0.000075
161	E	167.77165	0.513595	0.000507	167.81364	0.510972	0.000501	167.89500	0.508375	0.000496
162	V	178.48532	0.064126	0.000127	178.74267	0.051957	0.000102	179.13871	0.036458	0.000071
163	E	168.28476	0.513110	0.000485	168.34413	0.510492	0.000480	168.40290	0.507899	0.000476
164	V	178.54932	0.064005	0.000121	178.84453	0.051859	0.000098	179.17510	0.036390	0.000068
165	E	168.79741	0.512646	0.000464	168.84416	0.510032	0.000460	168.91034	0.507445	0.000454
166	V	178.61321	0.063890	0.000115	178.84629	0.051766	0.000093	179.21143	0.036325	0.000065
167	E	169.30951	0.512204	0.000442	169.36376	0.509594	0.000438	169.41735	0.507011	0.000434
168	V	178.67699	0.063779	0.000111	178.94797	0.051677	0.000089	179.24769	0.036263	0.000062
169	E	169.82140	0.511782	0.000422	169.84293	0.509177	0.000417	169.92395	0.506590	0.000413
170	V	178.74056	0.063674	0.000105	178.94956	0.051592	0.000085	179.28389	0.036204	0.000059
171	E	170.33278	0.511382	0.000400	170.30171	0.508780	0.000397	170.43016	0.506205	0.000393
172	V	178.80424	0.063575	0.000099	179.01107	0.051512	0.000080	179.32004	0.036148	0.000056
173	E	170.84378	0.511002	0.000380	170.84012	0.508405	0.000375	170.93599	0.505833	0.000372
174	V	178.86772	0.063480	0.000095	179.00251	0.051436	0.000076	179.35613	0.036095	0.000053
175	E	171.35442	0.510643	0.000359	171.34917	0.508049	0.000356	171.44147	0.505481	0.000352
176	V	178.93111	0.063391	0.000089	179.11387	0.051364	0.000072	179.39218	0.036044	0.000051
177	E	171.86473	0.510304	0.000339	171.91588	0.507714	0.000335	171.94662	0.505149	0.000332
178	V	178.99442	0.063304	0.000084	179.14517	0.051296	0.000068	179.42818	0.035997	0.000047
179	E	172.37471	0.509986	0.000318	172.41328	0.507399	0.000315	172.45146	0.504838	0.000311
180	V	179.05765	0.063228	0.000079	179.24640	0.051233	0.000063	179.46413	0.035953	0.000044
181	E	172.88440	0.509689	0.000297	172.94328	0.507104	0.000295	172.95600	0.504546	0.000292
182	V	179.12080	0.063154	0.000074	179.23758	0.051173	0.000060	179.50004	0.035911	0.000042
183	E	173.39381	0.509411	0.000278	173.42721	0.506830	0.000274	173.46028	0.504274	0.000272
184	V	179.18389	0.063086	0.000068	179.33869	0.051118	0.000055	179.53591	0.035872	0.000039
185	E	173.90297	0.509154	0.000257	173.93379	0.506575	0.000255	173.96430	0.504022	0.000252
186	V	179.24691	0.063022	0.000064	179.33976	0.051066	0.000052	179.57175	0.035836	0.000036
187	E	174.41188	0.508917	0.000237	174.44013	0.506340	0.000235	174.46809	0.503789	0.000233
188	V	179.30987	0.062963	0.000059	179.44078	0.051019	0.000047	179.60755	0.035803	0.000033
189	E	174.92058	0.508700	0.000217	174.94625	0.506125	0.000215	174.97166	0.503576	0.000213
190	V	179.37278	0.062910	0.000053	179.43175	0.050976	0.000043	179.64333	0.035773	0.000030
191	E	175.42909	0.508502	0.000198	175.43218	0.505930	0.000195	175.47505	0.035383	0.000193
192	V	179.43564	0.062861	0.000049	179.54269	0.050936	0.000040	179.67907	0.035746	0.000027
193	E	175.93741	0.508325	0.000177	175.93794	0.505754	0.000176	175.97826	0.503209	0.000174
194	V	179.49846	0.062817	0.000044	179.59359	0.050901	0.000035	179.71479	0.035721	0.000025
195	E	176.44558	0.508168	0.000157	176.45354	0.505598	0.000156	176.48131	0.035055	0.000154
196	V	179.56124	0.062778	0.000039	179.64446	0.050870	0.000031	179.75049	0.035699	0.000022
197	E	176.95361	0.508030	0.000138	176.95900	0.505462	0.000136	176.98423	0.035290	0.000135
198	V	179.62398	0.062744	0.000034	179.69530	0.050842	0.000028	179.78617	0.035680	0.000019
199	E	177.46152	0.507912	0.000118	177.47434	0.050345	0.000117	177.48704	0.0352804	0.000116
200	V	179.68670	0.062715	0.000029	179.74612	0.050819	0.000023	179.82183	0.035664	0.000016
201	E	177.96934	0.507814	0.000098	177.97959	0.050528	0.000097	177.98975	0.035708	0.000096
202	V	179.74939	0.062691	0.000024	179.79692	0.050799	0.000020	179.85748	0.035650	0.000014
203	E	178.47707	0.507735	0.000079	178.48476	0.0503170	0.000078	178.49238	0.035639	0.000011
204	V	179.81206	0.062671	0.000020	179.84771	0.050784	0.000015	179.89312	0.035639	0.000011
205	E	178.98475	0.507676	0.000059	178.98987	0.050512	0.000058	178.99495	0.035273	0.000058
206	V	179.87471	0.062657	0.000014	179.89848	0.050772	0.000012	179.92875	0.035631	0.000008
207	E	179.49238	0.507637	0.000039	179.49495	0.0505073	0.000039	179.49748	0.035253	0.000038
208	V	179.93736	0.062647	0.000010	179.94924	0.050764	0.000008	179.96438	0.035625	0.000006
209	E	180.00000	0.507617	0.000020	180.00000	0.505054	0.000019	180.00000	0.035216	0.000019
210	V	180.00000	0.062642	0.000005	180.00000	0.050760	0.000004	180.00000	0.035623	0.000002

ECCENTRICITY M		1.00		ECCENTRICITY M	1.00		ECCENTRICITY M	1.00		ECCENTRICITY M	1.00	
		1ST DIF.	2ND DIF.		1ST DIF.	2ND DIF.		1ST DIF.	2ND DIF.		1ST DIF.	2ND DIF.
1	E	27.10729		31	E	88.26965		31	E	88.26965	1.040878	0.020236
2	V	179.98001						32	V	179.99504	0.000091	0.000004
3	E	34.22892		7.121632				33	E	89.25140	1.021745	0.019133
4	V	179.98435		0.004341				34	V	179.99512	0.000088	0.000003
5	E	39.25596		5.027039				35	E	90.29502	1.003622	0.018123
6	V	179.98649		0.002138				36	V	179.99621	0.000085	0.000003
7	E	43.27978		4.023816				37	E	91.28145	0.986430	0.017192
8	V	179.98785		0.001366				38	V	179.99529	0.000082	0.000003
9	E	46.69461		3.414836				39	E	92.25155	0.970096	0.016334
10	V	179.98884		0.000983				40	V	179.99537	0.000079	0.000003
11	E	49.69342		2.998809				41	E	93.20610	0.954555	0.015541
12	V	179.98959		0.000757				42	V	179.99545	0.000077	0.000002
13	E	52.38679		2.693373				43	E	94.14585	0.939750	0.014805
14	V	179.99020		0.000611				44	V	179.99552	0.000074	0.000003
15	E	54.84671		2.457921				45	E	95.07148	0.925627	0.014123
16	V	179.99071		0.000509				46	V	179.99559	0.000072	0.000002
17	E	57.11461		2.269893				47	E	95.98362	0.912140	0.013487
18	V	179.99115		0.000434				48	V	179.99566	0.000070	0.000002
19	E	59.23027		2.115662				49	E	96.88286	0.899245	0.012895
20	V	179.99152		0.000377				50	V	179.99573	0.000068	0.000002
21	E	61.21673		1.986465				51	E	97.76977	0.886903	0.012342
22	V	179.99186		0.000332				52	V	179.99580	0.000066	0.000002
23	E	63.09312		1.876389				53	E	98.64485	0.875079	0.011824
24	V	179.99215		0.000296				54	V	179.99586	0.000064	0.000002
25	E	64.87441		1.781287				55	E	99.50858	0.863740	0.011339
26	V	179.99242		0.000267				56	V	179.99592	0.000063	0.000001
27	E	66.57257		1.698155				57	E	100.36144	0.852857	0.010883
28	V	179.99266		0.000243				58	V	179.99598	0.000061	0.000002
29	E	68.19733		1.624761				59	E	101.20384	0.842402	0.010455
30	V	179.99288		0.000222				60	V	179.99604	0.000060	0.000001
	E	69.75673		1.559408						102.03619	0.832350	0.010052
	V	179.99309		0.000205						179.99610	0.000058	0.000002
	E	71.25751		1.500781						102.85887	0.822677	0.009673
	V	179.99328		0.000190						179.99616	0.000057	0.000001
	E	72.70536		1.447842						103.61223	0.813363	0.009314
	V	179.99345		0.000176						179.99621	0.000056	0.000001
	E	74.10512		1.399764						104.47662	0.804389	0.008974
	V	179.99362		0.000165						179.99627	0.000054	0.000002
	E	75.46099		1.355874						105.21236	0.793735	0.008654
	V	179.99377		0.000155						179.99632	0.000053	0.000001
	E	76.77662		1.315624						106.05974	0.787384	0.008351
	V	179.99392		0.000146						179.99637	0.000052	0.000001
	E	78.05517		1.278556						106.83906	0.779322	0.008062
	V	179.99406		0.000138						179.99643	0.000051	0.000001
	E	79.29947		1.244292						107.61060	0.771534	0.007788
	V	179.99419		0.000130						179.99648	0.000050	0.000001
	E	80.51198		1.212511						108.37460	0.764005	0.007529
	V	179.99431		0.000124						179.99652	0.000049	0.000001
	E	81.69492		1.182939						109.13133	0.756724	0.007281
	V	179.99443		0.000118						179.99657	0.000048	0.000001
	E	82.85026		1.155345						109.88100	0.749678	0.007046
	V	179.99454		0.000112						179.99662	0.000047	0.000001
	E	83.97979		1.129528						110.62386	0.742857	0.006821
	V	179.99465		0.000107						179.99667	0.000046	0.000001
	E	85.08511		1.105315						111.36011	0.736250	0.006607
	V	179.99475		0.000103						179.99671	0.000046	0.006403
	E	86.16766		1.082554						112.08996	0.729847	0.006001
	V	179.99485		0.000099						179.99676	0.000045	0.006207
	E	87.22878		1.061114						112.81360	0.723640	0.006207
	V	179.99494		0.000095						179.99680	0.000044	0.000001

ECCENTRICITY		1.00 1ST DIF.		2ND DIF.		ECCENTRICITY		1.00 1ST DIF.		2ND DIF.	
M	E						M	E			
61	E	113.53122	0.717619	0.006021	0.000000	0.002752	91	E	132.94260	0.596145	0.002752
						0.					0.
62	V	179.99684	0.000043	0.000001	0.000000	0.002689	92	V	179.99790	0.000030	0.002689
						0.					0.
63	V	179.99689	0.000043	0.000001	0.000000	0.002627	93	E	133.53606	0.593456	0.002627
						0.					0.
64	V	179.99693	0.000042	0.000001	0.000001	0.002567	94	V	179.99793	0.000030	0.002567
						0.					0.
65	V	179.99697	0.000041	0.000001	0.000001	0.002508	95	E	134.71515	0.588262	0.002508
						0.					0.
66	E	117.03501	0.690055	0.005197	0.000001	0.002452	96	V	179.99799	0.000029	0.002452
						0.					0.
67	V	179.99705	0.000040	0.000001	0.000001	0.002397	97	E	135.30091	0.583302	0.002397
						0.					0.
68	V	179.99709	0.000039	0.000001	0.000001	0.002342	98	V	179.99802	0.000028	0.002342
						0.					0.
69	V	179.99713	0.000039	0.000001	0.000001	0.002290	99	E	136.46511	0.583302	0.002290
						0.					0.
70	E	119.74608	0.670662	0.004649	0.000001	0.002238	100	V	137.61995	0.576273	0.002238
						0.					0.
71	E	120.41221	0.666137	0.004525	0.000001	0.002188	101	E	138.19398	0.574035	0.002188
						0.					0.
72	V	179.99724	0.000037	0.000001	0.000001	0.002139	102	V	179.99816	0.574035	0.002139
						0.					0.
73	E	121.73139	0.657442	0.004290	0.000001	0.002092	103	E	138.76583	0.571847	0.002092
						0.					0.
74	V	179.99732	0.000036	0.000001	0.000001	0.002045	104	V	139.90315	0.567616	0.002045
						0.					0.
75	E	122.38465	0.653264	0.004178	0.000001	0.001999	105	E	140.46873	0.565571	0.001999
						0.					0.
76	V	179.99735	0.000036	0.000001	0.000001	0.001954	106	V	179.99824	0.565571	0.001954
						0.					0.
77	E	123.03384	0.645193	0.004071	0.000001	0.001911	107	E	141.03230	0.563572	0.001911
						0.					0.
78	V	179.99746	0.000035	0.000001	0.000001	0.001868	108	V	141.59392	0.563572	0.001868
						0.					0.
79	E	124.95802	0.637591	0.003769	0.000001	0.001827	109	E	142.15362	0.561618	0.001827
						0.					0.
80	V	179.99749	0.000034	0.000001	0.000001	0.001785	110	V	142.71146	0.559707	0.001785
						0.					0.
81	E	125.59194	0.633915	0.003676	0.000001	0.001746	111	E	143.26747	0.557839	0.001746
						0.					0.
82	V	179.99752	0.000034	0.000001	0.000001	0.001707	112	V	143.76583	0.556012	0.001707
						0.					0.
83	E	126.22227	0.630330	0.003585	0.000001	0.001668	113	E	144.92496	0.554481	0.001668
						0.					0.
84	V	179.99756	0.000033	0.000001	0.000001	0.001630	114	V	145.47406	0.552427	0.001630
						0.					0.
85	E	126.84910	0.628833	0.003497	0.000001	0.001594	115	E	146.02154	0.550774	0.001594
						0.					0.
86	V	179.99759	0.000033	0.000001	0.000001	0.001557	116	V	146.56742	0.550026	0.001557
						0.					0.
87	E	127.47252	0.623422	0.003411	0.000001	0.001523	117	E	147.99848	0.550026	0.001523
						0.					0.
88	V	179.99762	0.000033	0.000001	0.000001	0.001487	118	V	148.99855	0.549106	0.001487
						0.					0.
89	E	128.03261	0.620092	0.003330	0.000001	0.001453	119	E	149.99855	0.549106	0.001453
						0.					0.
90	V	179.99766	0.000032	0.000001	0.000001	0.001420	120	V	179.99860	0.547315	0.001420
						0.					0.
91	E	128.70946	0.616843	0.003249	0.000001	0.001384					0.
						0.					0.
92	V	179.99769	0.000032	0.000001	0.000001	0.001342					0.
						0.					0.
93	E	129.33213	0.613671	0.003172	0.000001	0.001299					0.
						0.					0.
94	V	179.99772	0.000032	0.000001	0.000001	0.001256					0.
						0.					0.
95	E	129.93370	0.610574	0.003097	0.000001	0.001213					0.
						0.					0.
96	V	179.99775	0.000031	0.000001	0.000001	0.001170					0.
						0.					0.
97	E	130.54125	0.607550	0.003024	0.000001	0.001127					0.
						0.					0.
98	V	179.99778	0.000031	0.000001	0.000001	0.001084					0.
						0.					0.
99	E	131.14585	0.604598	0.002952	0.000001	0.001041					0.
						0.					0.
100	V	179.99781	0.000031	0.000001	0.000001	0.001000					0.
						0.					0.
101	E	131.74756	0.601714	0.002884	0.000001	0.000957					0.
						0.					0.
102	V	179.99784	0.000030	0.000001	0.000001	0.000914					0.
						0.					0.
103	E	132.34646	0.598897	0.002817	0.000001	0.000871					0.
						0.					0.
104	V	179.99787	0.000030	0.000001	0.000001	0.000828					0.
						0.					0.

ECCENTRICITY		1.00		ECCENTRICITY		1.00	
M		1ST DIF.	2ND DIF.	M		1ST DIF.	2ND DIF.
121	E	149.81122	0.537056	151	E	165.42160	0.508473
122	V	179.99870	0.000024	152	V	179.99939	0.000022
123	V	150.34692	0.535701	153	E	165.92950	0.507896
124	V	179.99873	0.000024	154	V	179.99941	0.000022
125	V	150.88130	0.534379	155	E	166.43684	0.507341
126	V	179.99875	0.000024	156	V	179.99943	0.000022
127	V	151.41439	0.533088	157	E	166.94365	0.506807
128	V	179.99878	0.000024	158	V	179.99945	0.000022
129	E	151.94622	0.531827	159	E	167.44994	0.506295
130	V	179.99880	0.000024	160	E	167.99947	0.000022
131	V	152.47681	0.530596	161	E	168.49575	0.505803
132	V	179.99882	0.000024	162	V	179.99949	0.000022
133	V	153.00621	0.529396	163	E	168.99949	0.505333
134	V	179.99885	0.000024	164	V	179.99952	0.000021
135	E	153.53443	0.528224	165	E	168.99956	0.504883
136	V	179.99887	0.000023	166	V	179.99954	0.000021
137	E	154.06151	0.527082	167	E	169.47042	0.504453
138	V	179.99889	0.000023	168	E	169.99956	0.000021
139	E	154.58748	0.525967	169	E	170.47812	0.504045
140	V	179.99892	0.000023	170	E	170.99960	0.000021
141	V	155.11236	0.524881	171	E	171.48434	0.503656
142	V	179.99894	0.000023	172	E	171.98695	0.503287
143	V	155.63618	0.523822	173	V	172.99962	0.000021
144	V	179.99896	0.000023	174	E	173.49301	0.502839
145	E	156.15897	0.522790	175	E	173.99973	0.000021
146	V	179.99899	0.000023	176	E	174.49577	0.000021
147	E	156.68076	0.521785	177	E	174.99768	0.000021
148	V	179.99901	0.000023	178	E	175.49768	0.000021
149	V	157.20156	0.520806	179	E	175.99981	0.000021
150	V	179.99903	0.000023	180	E	176.49891	0.000021
151	E	157.72142	0.519853			176.99986	0.000021
152	V	179.99905	0.000023			177.49988	0.000021
153	E	158.24035	0.518926			177.99990	0.000021
154	V	179.99908	0.000023			178.49994	0.000021
155	E	158.75837	0.518025			178.99998	0.000021
156	V	179.99910	0.000023			179.49996	0.000021
157	E	159.27552	0.517148			179.99996	0.000021
158	V	179.99912	0.000022			180.00000	0.000021
159	E	159.79181	0.516296				
160	V	179.99914	0.000022				
161	E	160.30728	0.515468				
162	V	179.99917	0.000022				
163	E	160.82195	0.514664				
164	V	179.99919	0.000022				
165	E	161.33583	0.513884				
166	V	179.99921	0.000022				
167	E	161.84896	0.513128				
168	V	179.99923	0.000022				
169	E	162.36135	0.512395				
170	V	179.99925	0.000022				
171	E	162.87304	0.511685				
172	V	179.99928	0.000022				
173	E	163.38404	0.510998				
174	V	179.99930	0.000022				
175	E	163.89437	0.510333				
176	V	179.99932	0.000022				
177	E	164.40406	0.509691				
178	V	179.99934	0.000022				
179	E	164.91313	0.509071				
180	V	179.99936	0.000022				